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E12	2	US20060189747/PN

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=> d all

AN 2005:995/2 CAPLUS rull-text DN 142:178205

ED Entered STN: 04 Feb 2005

TI Preparation of water-absorbent resin compositions with good deodorization,

hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials

- IN Ueda, Hiroko; Wada, Katsuyuki; Nakashima, Yasuhisa
- PA Nippon Shokubai Co., Ltd., Japan

SO PCT Int. Appl., 88 pp. CODEN: PIXXD2

DT Patent.

LA English

IC ICM C08L101-14

ICS C08K003-22; A61L015-60; A61L015-18; A61F013-53

CC 38-3 (Plastics Fabrication and Uses)

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                        4C003/HA01; 4C098/AA09; 4C098/CC02; 4C098/DD05;
                        4C098/DD10; 4C098/DD16; 4C098/DD19; 4C098/DD23;
                        4C098/DD27; 4C098/DD29; 4C098/DD30; 4J002/AA031;
                        4J002/BB181; 4J002/BE021; 4J002/BG011; 4J002/BG101;
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EP 1648966
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KR 755476
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MX 2006PA01014 IPCI
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AB
     Title water-absorbent resin compns. comprise a water-absorbent resin
     obtainable by polymerizing an unsatd, monomer having an acid group and/or a
     salt thereof, and complex oxide hydrate containing zinc and silicon, or zinc
     and aluminum, wherein the complex oxide hydrate contains zinc as main metal
     component, the mass ratio of the content of zinc and the content of silicon or
     aluminum is in the range of 50/50 - 99/1, and the absorption capacity at 60
     min toward 0.90 mass% sodium chloride aqueous solution under the pressure of
     1.9 kPa is not less than 20 g/g. Thus, 3.4 g polyethylene glycol diacrylate
     and 38% 5500 g an aqueous sodium acrylate solution with neutralization degree
     75 mol% were polymerized to give a hydrogel, which was dried at 150°,
     pulverized, classified by particle size, and mixed the classified particles,
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100 parts of the resulting water-absorbent resin powder was mixed with 3.83

A61F0005-44 [ICS,7]; A61F0005-441 [ICS,7]; A61F0013-15 [ICS,7]; A61F0013-472 [ICS,7]; A61F0013-49 [ICS,7];

parts a surface crosslinking agent containing propylene glycol 0.5, ethylene glycol diglycidyl ether 0.03, and 1,4-butanediol 0.3 parts, heated at 210° for 55 min to give a water-absorbent resin with absorption capacity 35 g/g without load and 32 g/g under pressure 1.9 kPa, 100 parts of which was mixed with 0.50 parts Ceration SZ 100S a complex oxide hydrate of zinc and silicon (zinc/silicon = 82/18, average particle diameter 0.36 μ m), showing absorption capacity 36 g/g without load and 32 g/g under 1.9 kPa, good deodorization of hydrogen sulfide and ammonia, hydroscopic blocking rate, and separation ratio.

ST water absorbent compn deodorization hygroscopic gel strength sepn resistance; crosslinked acrylic polyoxyalkylene metal oxide compn IT (apsorbent; preparation of with

(absorbent; preparation of with good hygroscopic, fluid, separation-resistant, get strength, and absorption

IT

KL: INP (inquestrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (acrylic, crosslinked; preparation of water-absorbent resin compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

IT uses

KL: MUA (Modifier or additive use); USES (Uses)

properties for absorbent materials)

(deodorants; preparation of water-absorbent resin compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

IT Embryophyta

Plants

(extractants, deodorants; preparation of water-absorbent resin compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

IT Camellia

(exts., deodorants; preparation of water-absorbent resin compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

IT Absorbents

(hydrogels; preparation of water-absorbent resin compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

IT Absorbents

Deodorants

(preparation of water-absorbent resin compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

IT Fibers

RL: TEM (Technical or engineered material use); USES (Uses)

(preparation of water-absorbent resin compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

Medical goods

(sanitary napkins; preparation of water-absorbent resin compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

KL: 1MF (Industrial manufacture); MOA (Modifier or additive use); PREP
(Preparation); USES (Uses)

(blend with metal oxide, deodorant; preparation of water-absorbent resin compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

IT 13463-67-7DP, Titanium oxide, hydrated

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP

(Preparation); USES (Uses)

(blend with silicon oxide, deodorant; preparation of water-absorbent resin compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

IT

KL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)

(blend with zinc oxide, deodorant; preparation of water-absorbent resin compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

IT 634588-11-7, FS 80MO 835628-30-3, Ceratiox SZ 100S

RL: MOA (Modifier or additive use); USES (Uses)

(deodorant; preparation of water-absorbent resin compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

IT 357617-37-9P 632327-14-1P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (preparation of water-absorbent resin compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

IT 1344-09-8, Sodium silicate 7550-45-0, Titanium chloride, processes 7733-02-0, Zinc sulfate 10043-01-3D, Aluminum sulfate, hydrated RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PROC (Process)

(reactant in deodorant preparation; preparation of water-absorbent resin compns.

with qood hydroscopic, fluid, separation-resistant, qel strength, and

absorption properties for absorbent materials)
RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD

(1) Kao Corporation; JP 10-147724 A 1998 CAPLUS

(2) Kao Corporation; CA 1182750 A 1998 CAPLUS (3) Lion Corporation; JP 01-005546 A 1989

(4) Lion Corporation; EP 0282287 A2 1989 CAPLUS

(5) Lion Corporation; DE 3869446 A 1989

(6) Mitsubishi Chemical Corporation; JP 10-298442 A 1998 CAPLUS

(7) Mitsubishi Chemical Corporation; JP 11-049971 A 1999 CAPLUS

(8) Mitsubishi Chemical Corporation; JP 11-116829 A 1999 CAPLUS

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(10) Nippon Shokubai Co Ltd; JP 60-158861 A 1985 CAPLUS

(11) Nippon Shokubai Co Ltd; JP 02-041155 A 1990

(12) Nippon Shokubai Co Ltd; JP 11-241030 A 1999 CAPLUS

(13) Uni-Charm Corporation; EP 0799861 A1 1996 CAPLUS

(14) Uni-Charm Corporation; JP 08-176338 A 1996 CAPLUS

(15) Uni-Charm Corporation; US 5980879 A 1996 CAPLUS

=> s 1314-13-2

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

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=> s 1344-28-1
REGISCRY INITIATED
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Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

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L5 297471 L4
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=> s L3 and L5 L6 18381 L3 AND L5

=> s 7631-86-9

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress... Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

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L8 413483 L7
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=> L3 and L5
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L3 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system. For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (->).

=> s L3 and L5

L9 18381 L3 AND L5

=> s L3 and L8

L10 16982 L3 AND L8

=> e (resins OR "Resin" OR "Resinification" OR "Resinols" OR "Gum" OR "Gum resins" OR "Gums" OR "Gums (resinous)" OR "Natural resins" OR "Resinous gums" OR "Resin acids")

**** START OF FIELD ****

E40 0 --> (RESINS OR RESIN OR RESINITICATION OR RESINOLS OR GUM OR GUM
RESINS OR GUMS OR GUMS (RESINOUS) OR NATURAL RESINS OR RESI
NOUS GUMS OR RESIN ACIDS)/BI

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E43	113279	00/BI
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E45	2	00-43-1/BI
E46	2	00-43-2/BI
E47	1	00-50-5/BI

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E48 437460 000/BI
E49 1 000-20-5/BI
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 431020 "RESINS"
810441 "RESIN"
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110005 "GELS"
23984 "HYDRO"
37 "HYDROS"
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         55849 "ACRYLAMIDE"
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       3158490 "N"
       3158490 "N"
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          6375 "METHYLENEBISACRYLAMIDE"
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1.12
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OR "Superabsorbents")
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         23218 "ABSORBENTS"
        979455 "ABSORPTION"
        13830 "ABSORPTIONS"
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                ("AGENTS" OR "AGENTSES")
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T. 4
              1 S 1344-28-1/RN
     FILE 'CAPLUS' ENTERED AT 13:29:28 ON 09 APR 2008
CHARGED TO COST=USPTO
        297471 S L4
L5
L6
          18381 S L3 AND L5
                S 7631-86-9/REG#
     FILE 'REGISTRY' ENTERED AT 13:30:15 ON 09 APR 2008
CHARGED TO COST=USPTO
             1 S 7631-86-9/RN
     FILE 'CAPLUS' ENTERED AT 13:30:15 ON 09 APR 2008
CHARGED TO COST=USPTO
1.8
        413483 S L7
         18381 S L3 AND L5
L9
L10
         16982 S L3 AND L8
                E RESIN+ALL/CT
                E RESINS+ALL/CT
                E (RESINS OR "RESIN" OR "RESINIFICATION" OR "RESINOLS" OR "GUM"
L11
        870491 S (RESINS OR "RESIN" OR "RESINIFICATION" OR "RESINOLS" OR "GUM"
                E HYDROGELS+ALL/CT
          21359 S (HYDROGELS OR "GELS" (L) "HYDRO-" OR "ACRYLAMIDE-N.N'-METHYLE
L12
                E ABSORBENTS+ALL/CT
                E ABSORBENTS+ALL/CT
1.13
          25826 S (ABSORBENTS OR "ABSORBENTS" OR "ABSORPTION AGENTS" OR "HYGROS
=> S 19 and ((L11 and L14) or L12)
L14 NOT FOUND
The L-number entered could not be found. To see the definition
of L-numbers, enter DISPLAY HISTORY at an arrow prompt (=>).
=> S 19 and ((L11 and L13) or L12)
           42 L9 AND ((L11 AND L13) OR L12)
=> S 110 and ((L11 and L13) or L12)
           50 L10 AND ((L11 AND L13) OR L12)
L15
=> s L14 or L15
=> S L16 and (py<2004 or ay<2004 or pry<2004)
      23980281 PY<2004
      4766612 AY<2004
```

L16 ANSWER 1 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:381421 CAPLUS Full-text

TITLE: Obtaining a controlled colored effect from a vegetable

extract INVENTOR(S):

Chevalier, Veronique; Nguyen, Quang Lan

PATENT ASSIGNEE(S): L'Oreal, Fr.

PCT Int. Appl., 27pp. SOURCE: CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT	NO.			KIN	D	DATE			APPL	ICAT	ION I	NO.		D.	ATE	
WO 2008	0347	03		A1	_	2008	0327		WO 2	007-	EP59	016		2	0070	829
W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BH,	BR,	BW,	BY,	BZ,	CA,
	CH,	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DO,	DZ,	EC,	EE,	EG,	ES,	FI,
	GB,	GD,	GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,
	KM,	KN,	KP,	KR,	KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LY,	MA,	MD,	ME,
	MG,	MK,	MN,	MW,	MX,	MY,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,
	PT,	RO,	RS,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	SV,	SY,	TJ,	TM,	TN,
	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	ZW				
RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,
	IS,	IT,	LT.	LU,	LV,	MC,	MT,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR.	BF,
	BJ,	CF.	CG,	CI,	CM,	GA,	GN,	GO,	GW,	ML,	MR,	NE.	SN,	TD,	TG,	BW,
	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,
	BY,	KG,	KZ,	MD,	RU,	TJ,	TM									
FR 2905	866			A1		2008	0321		FR 2	006-	5384	1		2	0060	920
PRIORITY APP	LN.	INFO	. :						FR 2	006-	5384	1		A 2	0060	920
									US 2	006-	8483	76P	1	P 2	0061	002

REFERENCE COUNT: 7

THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT Barley

Black currant

Caesalpinia echinata

Chamomile

Cosmetics and personal care products

Crataequs Fucus

Glycine max

Glycyrrhiza

Gossypium hirsutum

Grape

Haematoxylon campechianum

Hordeum vulgare

Lupinus

Oryza sativa

Pea

Percolation

Pinus

Pisum sativum

Ribes nigrum Rice

Sawdust

Silk

Skimmia japonica

```
Sorghum bicolor
Soybean
Suntanning products
Superabsorbents
Theobroma cacao
Thickening agents
Triticum aestivum
Vitis vinifera
Zea mays
```

(obtaining a controlled colored effect from a vegetable extract)

IT Resins

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (obtaining a controlled colored effect from a vegetable extract)

T 91-64-5D, Coumarin, derivs. 471-34-1, Calcium carbonate 493-08-3D,

91-04-03, Columnin, derivs. 471-34-1, Calcium Carbonate 439-04-03, Chroman, aryl derivs. 546-93-0, Magnesium carbonate 1306-06-5, Hydroxyapatite 1314-13-2, Zinc oxide 1314-23-4, Zirconium oxide 1344-28-1, Alumina %231-36-3, Sliica 9002-84-0, Polytetrafluoroethylene 9002-84-4, Polytethylene 9003-39-8, Polyacrylpamide 9003-39-8, Polywarylpyrrolidone 9004-34-6D, Cellulose,

derivs. 9005-25-8, Starch 9005-35-6, Calclum alginate 9010-76-8, Acrylonitrile-vinylidene chloride copolymer 9011-14-7, Polymethylmethacrylate) 9012-76-4, Chicosan 9016-00-6, Polydimethylsiloxane 9050-36-6, Maltodextrin 12619-70-4, Cyclodextrin 13463-67-7, Titanium dioxide 14807-96-6, Talc 25608-40-6, Polyaspartic acid 26063-13-8, Polyaspartic acid 31900-57-9, Polydimethylsiloxane RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(obtaining a controlled colored effect from a vegetable extract)

L16 ANSWER 2 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2008:223177 CAPLUS Full-text

DOCUMENT NUMBER: 148:240633
TITLE: Composites for sound control applications

INVENTOR(S): Zamani, Shahram

PATENT ASSIGNEE(S): Hitachi Chemical Co., Ltd., Japan; Hitachi Chemical

Research Center, Inc. PCT Int. Appl., 26pp.

SOURCE: PCT Int. Appl.
CODEN: PIXXD2
DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	TENT	NO.			KIN	D	DATE		1	APPL	ICAT:	ION:	NO.		D	ATE	
						-									-		
WO	2008	0214	55		A2		2008	0221	1	WO 2	007-1	US18	182		2	0070	816
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BH,	BR,	BW,	BY,	BZ,	CA,
		CH,	CN,	co,	CR,	CU,	CZ,	DE,	DK,	DM,	DO,	DZ,	EC,	EE,	EG,	ES,	FI,
		GB,	GD,	GE,	GH,	GM,	GT,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,
		KM,	KN,	KP,	KR,	KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LY,	MA,	MD,	ME,
		MG,	MK,	MN,	MW,	MX,	MY,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,
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		TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	ZW				
	RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,
		IS,	IT,	LT,	LU,	LV,	MC,	MT,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,
		ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,
		GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,
		BY,	KG,	KZ,	MD,	RU,	TJ,	TM									
		BY,	KG,	KZ,	MD,	RU,	ТJ,	TM									

PRIORITY APPLN. INFO.: US 2006-838046P P 20060816 IT #vdrogets Nanostructured materials Plastic films

Sound insulators

(composites for sound control applications)

IT 88-12-0D, polymers 97-90-5D, Ethylene glycol dimethacrylate, polymers 868-77-9D, 2-Hydroxyethyl methacrylate, polymers 9002-89-5, Polyvinyl alcohol 9003-04-7, Sodium polyacrylate 25852-47-5D, Polyethylene glycol dimethacrylate, polymers

RL: TEM (Technical or engineered material use); USES (Uses)
(hydrogels; composites for sound control applications)

IT 409-21-2, Silicon carbide, uses 1306-38-3, Cerium oxide, uses 1309-42-8, Magnesium hydroxide 1309-48-4, Magnesium oxide, uses 1314-13-2, Zinc oxide, uses 1314-23-4, Zirconium oxide, uses 1318-93-0, Montmorillonite, uses 1332-29-2, Tin oxide 1332-37-2, Iron

1318-93-0, Montmorillonite, uses 1332-29-2, Tin oxide 1332-37 oxide, uses 1344-28-1, Aluminum oxide, uses 7439-95-4,

Magnesium, uses 7631-86-9, Silicon dioxide, uses 7727-43-7,

Barium sulfate 7782-42-5, Graphite, uses 12033-89-5, Silicon nitride,

uses 12057-24-8, Lithium oxide, uses 12070-08-5, Titanium carbide 13463-67-7, Titanium dioxide, uses 20667-12-3, Silver oxide

24304-00-5, Aluminum nitride RL: MOA (Modifier or additive use); USES (Uses)

(nanopowders; composites for sound control applications)

L16 ANSWER 3 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2007:1176584 CAPLUS $\underline{\text{Full-text}}$

DOCUMENT NUMBER: 147:474875

TITLE: A tablet for absorbing waste drainage comprising

hydrogel

INVENTOR(S): Barda, Aharon

PATENT ASSIGNEE(S): Israel
SOURCE: PCT Int. Appl., 15pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PA:	TENT :	NO.			KIN	D	DATE			APPL	ICAT	ION :	NO.		D.	ATE	
						-									-		
WO	2007	1164	00		A2		2007	1018		WO 2	007-	IL44	5		2	0070	410
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BH,	BR,	BW,	BY,	BZ,	CA,
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		TZ,	UA,	UG,	US,	UZ,	VC,	VN,	ZA,	ZM,	zw						
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,
		IS,	IT,	LT,	LU,	LV,	MC,	MT,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,
		ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,
		GH,	GM,	KΕ,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,
		BY.	KG.	KZ,	MD.	RU.	TJ.	TM									

PRIORITY APPLN. INFO.: US 2006-790818P P 20060411

IT Absorption

Algicides

Antibacterial agents Beeswax

Biocides Deodorization

Fungicides

```
Herbicides
  Hydrogels
Insecticides
Perfumes
Pesticides
Pharmaceutical tablets
  Superabsorbents
Wastewater
  (tablet for absorbing waste drainage comprising hydrogel)
Acrylic polymers, biological studies
Alkaline earth metals
Alkaline earth oxides
Alkyd resins
Bentonite, biological studies
Borates
Butyl rubber, biological studies
Candelilla wax
Carnauba wax
Ceresin
Diatomite
Essential oils
Feldspar-group minerals
Fluoropolymers, biological studies
Fossil waxes
Gilsonite
Hydrocarbon waxes, biological studies
Hydroxides (inorganic)
Iron ores, biological studies
Jojoba oil
Kaolin, biological studies
Lanolin
Lead ores, biological studies
Limestone, biological studies
Melanins
Montan wax
Oxides (inorganic), biological studies
Paraffin waxes, biological studies
Perlite
Phenolic resins, biological studies
Polyacetylenes, biological studies
Polyamide fibers, biological studies
Polyamides, biological studies
Polvanilines
Polydiacetylenes
Polyesters, biological studies
Polyimides, biological studies
Polyketones
Polyoxyalkylenes, biological studies
Polyoxyphenylenes
Polysaccharides, biological studies
Polysulfones, biological studies
Polyureas
Polyurethanes, biological studies
Sand
Sulfides, biological studies
Tall oil
Zeolites (synthetic), biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
```

(tablet for absorbing waste drainage comprising hydrogel) 50-81-7, Ascorbic acid, biological studies 55-56-1, Chlorohexidine 56-03-1D, Biguanide, polymers 77-92-9, Citric acid, biological studies 111-30-8, Glutaraldehyde 120-93-4D, Ethylene urea, hydroxylated derivs. 124-09-4, Hexamethylenediamine, biological studies 141-43-5, Ethanolamine, biological studies 144-55-8, Sodium hydrogencarbonate, biological studies 298-14-6, Potassium hydrogencarbonate 462-02-2, Cyamelide 471-34-1, Calcium carbonate, biological studies 497-19-8, Sodium carbonate, biological studies 569-64-2, Malachite green 584-08-7, Potassium carbonate 597-59-1, Citramide 1303-96-4, Borax 1305-62-0, Lime, hydrate, biological studies 1305-78-8, Calcium oxide, biological studies 1309-37-1, Red iron oxide, biological studies 1309-42-8, Magnesium hydroxide 1309-48-4, Magnesium oxide, biological studies 1314-13-2, Zinc oxide, biological studies 1317-38-0, Cupric oxide, biological studies 1343-98-2, Silicic acid 1344-28-1, Aluminum oxide, biological studies 6915-15-7, Malic acid 7429-90-5, Aluminum, biological studies 7439-89-6, Iron, biological studies 7439-96-5, Manganese, biological studies 7439-98-7, Molybdenum, biological studies 7440-50-8, Copper, biological studies 7447-40-7, Potassium chloride, biological studies 7487-88-9, Magnesium sulfate, biological studies 7631-86-9, Silica, biological studies 7646-85-7, Zinc chloride, biological studies 7647-14-5, Sodium chloride, biological studies 7647-15-6, Sodium bromide, biological studies 7664-93-9, Sulfuric acid, biological studies 7681-52-9, Sodium hypochlorite 7697-37-2, Nitric acid, biological studies 7722-84-1, Hydrogen peroxide, biological studies 7758-02-3, Potassium bromide, biological studies 7778-18-9, Calcium sulfate 7778-54-3, Calcium hypochlorite 7786-30-3, Magnesium chloride, biological studies 8050-88-2, Celluloid 9002-81-7, Poly(oxymethylene) 9002-86-2, Polyvinyl chloride 9002-86-2D, Polyvinyl chloride, chlorinated 9002-89-5, Polyvinyl alcohol 9002-98-6 9003-04-7, Sodium polyacrylate 9003-05-8, Polyacrylamide 9003-07-0, Polypropylene 9003-17-2, Polybutadiene 9003-20-7, Polyvinyl acetate 9003-35-4, Phenol formaldehyde resin 9003-39-8, Poly vinyl pyrrolidone 9003-53-6, Polystyrene 9003-56-9, Acrylonitrile butadiene styrene copolymer 9004-70-0, Nitrocellulose 9005-32-7, Alginic acid 9005-53-2, Lignin, biological studies 9011-14-7, Polymethyl methacrylate 9016-00-6, Polydimethylsiloxane 9020-73-9, Polyethylene naphthalate 9041-80-9, Poly(phenylene oxide) 10043-35-3, Boric acid (H3BO3), biological studies 10101-41-4, Calcium sulfate dihydrate 10377-60-3, Magnesium nitrate 11078-30-1, Galactomannan 13462-86-7, Barite 14538-56-8 14807-96-6, Talc, biological studies 16389-88-1, Dolomite, biological studies 20427-58-1, Zinc hydroxide 21645-51-2, Aluminum hydroxide, biological studies 24937-16-4, Nylon 12 24937-79-9, Polyvinylidene fluoride 24938-64-5, Poly-p-phenylene terephthalamide 24968-11-4, Polyethylene naphthalate 24968-12-5, Polybutylene terephthalate 24980-41-4, Polycaprolactone 24991-23-9 25014-41-9, Polyacrylonitrile 25035-37-4, Poly-p-phenylene terephthalamide 25038-54-4, Nylon 6, biological studies 25038-59-9, biological studies 25038-71-5, Ethylene tetrafluoroethylene copolymer 25038-74-8 25067-58-7, Polyacetylene 25212-74-2, Poly(p-phenylene sulfide) 25233-30-1, Polyaniline 25248-42-4, Polycaprolactone 25322-68-3, Poly ethylene glycol 25322-69-4, Polypropylene glycol 25513-46-6, Polyglutamic acid 26009-03-0, Polyglycolide 26009-24-5, Poly(p-phenylene vinylene) 26023-30-3, Poly[oxy(1-methyl-2-oxo-1,2ethanediv1)1 26062-94-2, Polybutylene terephthalate 26063-00-3, Polyhydroxybutyrate 26100-51-6, Poly(DL-lactic acid) 26161-42-2 26202-08-4, Polyglycolide 26744-04-7 26811-96-1, Poly(L-lactic acid) 26913-06-4, Poly(imino(1,2-ethanedivl)) 26917-25-9, Poly(D-lactic acid) 27119-07-9, Poly (2-acrylamido-2-methyl-1- propanesulfonic acid)

30604-81-0, Polypyrrole 31900-57-9, Polydimethylsiloxane 34345-47-6 53568-81-3, Glycerol phthalate 106989-11-1, Poly(D-lactic acid) 126213-51-2, Poly (3,4- ethylenedioxythiophene) 946513-85-5 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(tablet for absorbing waste drainage comprising hydrogel)

L16 ANSWER 4 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2007:912245 CAPLUS Full-text

DOCUMENT NUMBER:

147:270169 TITLE:

Electrochemical hybridization biosensor chip using capture-associated oligonucleotides conjugated to capture moieties, and diagnostic applications

INVENTOR(S): Labgold, Marc R.; Jokhadze, George G.; Jen, I-Min Michael; Shen, Naiping; Kozlowski, Mark T.; Ammini, Chandramohan V.; Suhy, David A.; Norris, Michael C.;

Lobban, Peter PATENT ASSIGNEE(S):

Antara Biosciences Inc., USA SOURCE: PCT Int. Appl., 188pp. CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT	NO.		KIN		DATE				ICAT				D.	ATE	
WO 2007 WO 2007			A2 A3		2007	0816							2	0070	207
WO 2007 W:	092552 AE, AG, CN, CO, GE, GH, KP, KR, MN, MW, RS, RU, TZ, UA, AT, BE, IS, IT, CF, CG, GM, KE, KG, KZ,	AL, CR, GM, KZ, MX, SC, UG, BG, LT, CI, LS, MD,	A3 AM, CU, GT, LA, MY, SD, US, CH, LU, CM, MW,	AT, CZ, HN, LC, MZ, SE, UZ, CY, LV, GA,	2007 AU, DE, HR, LK, NA, SG, VC, CZ, MC, GN, NA,	AZ, DK, HU, LR, NG, SK, VN, DE, NL, GQ, SD,	BA, DM, ID, LS, NI, SL, ZA, DK, PL, GW, SL, EA,	BB, DZ, IL, LT, NO, SM, ZM, EF, SZ, EF, US 2 2 US 2 2 US 2 US 2 US 2 US 2 US 2	BG, EC, IN, LU, NZ, SV, ZW ES, RO, MR,	BR, EE, IS, LV, OM, SY, FI, SE, NE, UG, 7657. 7657. 80199. 8020. 8020. 8020. 8020. 8088. 8128. 8145.	BW, EG, JP, LY, PG, TJ, FR, SI, SN, ZM, 40P 03P 50P 33P 62P 62P 66P	BY, ES, KE, MA, PH, TM, GB, SK, TD, ZW,	BZ, FI, KG, MD, PL, TN, TR, TG, AM, TR, 2P 2 2P	CA, GB, KM, MG, PT, TR, HU, BF, BW,	CH, GD, KN, RO, TT, IE, BJ, GH, BY, 207 5519 5519 5519 5519 5612 6616
								US 2 US 2 US 2	006- 006- 006- 006- 006-	8463 8486 8500	18P 57P 16P		P 2 P 2 P 2	0060 0060 0061 0061 0061	921 002 006

IT Biodegradable materials

Mydrogels

(electrode coating; electrochem, hybridization biosensor chip using capture-associated oligonucleotides conjugated to capture moieties, and diagnostic applications)

TT 7429-90-5, Aluminum, biological studies 7440-06-4, Platinum, biological studies 7440-50-8, Copper, biological studies 7631-86-9,

Silica, biological studies 13463-67-7, Titanium dioxide, biological studies 25038-59-9, biological studies

RL: ARU (Analytical role, unclassified); DGN (Diagnostic use); TEM (Technical or engineered material use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(electrochem. hybridization biosensor chip using capture-associated oligonucleotides conjugated to capture moieties, and diagnostic applications)

II 1303-00-0, Gallium arsenide (GaAs), biological studies 1306-23-6, Cadmium sulfide (CdS), biological studies 1314-08-5, Palladium oxide (PdO) 1314-13-2, Zinc oxide (ZnO), biological studies 1332-29-2, Tin oxide 1314-35-8, Tungsten oxide (W03), biological studies 1332-29-2, Tin oxide 1314-35-8, Tungsten oxide (W1203), biological studies 7440-05-3, Palladium, biological studies 7440-3-3, Palladium, biological studies 7440-18-6, Rhodium, biological studies 7440-18-8, Ruthenium, biological studies 7440-32-6, Titanium, biological studies 7440-56-4, Germanium, biological studies 7782-42-5, Graphite, biological studies 11113-84-1, Ruthenium oxide 11129-89-8, Platinum oxide 12412-19-0, Molybednum oxide (M0206) 50926-11-9, Indium tin

oxide
RI: ARU (Analytical role, unclassified); DGN (Diagnostic use); TEM
(Technical or engineered material use); ANST (Analytical study); BIOL
(Biological study); USES (Uses)

(electrode; electrochem. hybridization biosensor chip using capture-associated oligonucleotides conjugated to capture moieties, and diagnostic applications)

L16 ANSWER 5 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2007:843630 CAPLUS Full-text

DOCUMENT NUMBER: 147:243462

TITLE: Hot-melt silicone based ostomy and wound care skin

attachment pressure sensitive adhesives
INVENTOR(S): Sambasivam, Mahesh; Fattman, George F.
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA

SOURCE: U.S. Pat. Appl. Publ., 6pp.

CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20070179461	A1	20070802	US 2007-669967	20070201
EP 1815876	A2	20070808	EP 2007-2186	20070201
EP 1815876	A3	20071017		
R: AT, BE, BG,	CH, CY	, CZ, DE, DE	K, EE, ES, FI, FR,	GB, GR, HU, IE,
IS, IT, LI,	LT, LU	, LV, MC, NI	L, PL, PT, RO, SE,	SI, SK, TR, AL,
BA, HR, MK,	YU			
CA 2576618	A1	20070802	CA 2007-2576618	20070202
AU 2007200465	A1	20070816	AU 2007-200465	20070202
PRIORITY APPLN. INFO.:			US 2006-764395P	P 20060202
IT Adhesion, physical				

IT Adhesion, physica Adhesives

Gravure printing Hydrocolloids Latex Loss modulus Nanotubes
Nonwoven fabrics
Plasticizers
Pore structure
Screens (mesh)
Stencils
Storage modulus
Strength
Superabsorbents
Tackifiers
Textiles

(hot-melt silicone based pressure-sensitive adhesives for ostomy and wound care skin device attachment)

IT Petroleum resins

RL: PRP (Properties); TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (hydrogenated, Arkon P-100; hot-melt silicone based pressure-sensitive adhesives for ostomy and wound care skin device attachment)

IT 7631-86-9, Silica, biological studies

RL: PRP (Properties); TBM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(CAB-o-sil M-5; hot-melt silicone based pressure-sensitive adhesives for ostomy and wound care skin device attachment)

T 59-92-7, L-Dihydroxyphenylalanine, biological studies 471-34-1, Calcium carbonate, biological studies 314-13-2, Zinc oxide, biological studies 1318-93-0, Montmorillonite ((All.33-1.67Mg0.33-0.67)(CaO-1NaO-1)0.33514(OH)2010.xH2O), biological studies 1344-28-1, Alumina, biological studies 6683-19-8, Irganox 1010 9002-85-1, Polyvinylidene chloride 9002-86-2, Polyvinyl chloride 9002-89-5, Polyvinyl alcohol 9003-01-4, Polyacrylic acid 9003-207, Polyvinyl acetate 9003-39-8, Poly(N-vinyl-2-pyrrolidone) 9004-34-6, Cellulose, biological studies 9012-76-4, Chitosan 13463-67-7, Titanium dioxide, biological studies 14807-96-6, Talc, biological studies 53320-86-8, Laponite 415696-59-2, Pure Thix TX 1442
RL: PRP (Properties); TEM (Technical or engineered material use); THU

(Therapeutic use); BIOL (Biological study); USES (Uses) (hot-melt silicone based pressure-sensitive adhesives for ostomy and wound care skin device attachment)

L16 ANSWER 6 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2007:86503 CAPLUS Full-text

DOCUMENT NUMBER: 146:186801

TITLE: Animal litter containing activated carbon INVENTOR(S): Fritter, Charles F.; Jenkins, Dennis B.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 7pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 20070017453 A1 20070125 US 2005-189182 20050725
CA 2552216 A1 20070125 CA 2006-2552216 200607125
PRIORITY APPLIN. INFO.: US 2005-189182 A 20050725

IT Goms and Mucilages

(fixing agent; animal litter containing activated carbon)

IT <u>Absorbents</u>

Deodorants

(supplementary; animal litter containing activated carbon)

1344-28-1, Aluminum oxide, uses

RL: NUU (Other use, unclassified); USES (Uses)

(as whitening agent, or activated, as supplement deodorant or absorbent; animal litter containing activated carbon)

2631-86-9, Silica, uses

RL: NUU (Other use, unclassified); USES (Uses)

(supplemental absorbent or deodorant, or colloidal or precipitated silica,

as supplemental absorbent; animal litter containing activated carbon)

471-34-1, Calcium carbonate, uses 546-93-0, Magnesium carbonate

1305-78-8, Calcium oxide, uses 1309-48-4, Magnesium oxide, uses 1314-13-2, Zinc oxide, uses 14807-96-6, Talc, uses

RL: NUU (Other use, unclassified); USES (Uses)

(whitening agent; animal litter containing activated carbon)

ACCESSION NUMBER:

L16 ANSWER 7 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN 2007:61593 CAPLUS Full-text

DOCUMENT NUMBER: 146:148423

TITLE: Cosmetic mascaras containing waxes and hydrocolloids

and method for preparation

PATENT ASSIGNEE(S): Schwan-Stabilo Cosmetics G.m.b.H. & Co. K.-G., Germany

SOURCE: Ger. Offen., 17pp. CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	ENT I				KIN		DATE				ICAT				-	ATE	
	1020				A1		2007							3520		0050	
DE	1020	0503	3520		B4		2007	1220									
US	2007	0014	744		A1		2007	0118	1	US 2	005-	2468	15		2	0051	007
CA	2523	673			A1		2007	0114		CA 2	005-	2523	673		2	0051	017
WO	2007	0311	39		A1		2007	0322	1	WO 2	006-1	EP69	13		2	0060	714
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	GE,
		GH,	GM,	HN,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KN,	KP,	KR,
		KZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,	MW,
		MX,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RS,	RU,	SC,
		SD,	SE,	SG,	SK,	SL,	SM,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,
		UZ,	VC,	VN,	ZA,	ZM,	ZW										
	RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,
		IS,	IT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,
		CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	GH,
		GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
		KG,	KZ,	MD,	RU,	TJ,	TM										

PRIORITY APPLN. INFO.: DE 2005-102005033520A 20050714 REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Antioxidants Beeswax

Cosmetic emulsions Cotton fibers Emulsifying agents Fillers Flax fibers

Hair

```
Hair dves
  Hydrodels
Mascaras
Ozocerite
Perfumes
Pigments, nonbiological
Preservatives
Varnishes
Viscosity
Wool
рΗ
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50-70-4, Sorbitol, biological studies 56-81-5, Glycerin, biological studies 57-10-3, Palmitic acid, biological studies 57-11-4, Stearic acid, biological studies 69-65-8, Mannitol 81-13-0, Pantothenol 87-99-0, Xvlitol 102-71-6, Triethanolamine, biological studies 107-46-0, Hexamethyldisiloxane 107-51-7, Octamethyltrisiloxane 112-85-6, Behenic acid 115-77-5, Pentaerythritol, biological studies 116-14-3, Tetrafluoroethylene, biological studies 124-18-5, Decane 124-68-5 141-62-8, Decamethyltetrasiloxane 141-63-9, Dodecamethylpentasiloxane 540-10-3, Cetyl palmitate 540-97-6, Dodecamethylcyclohexasiloxane 541-02-6, Decamethylcyclopentasiloxane 541-05-9, Hexamethylcyclotrisiloxane 556-67-2, Octamethylcyclotetrasiloxane 557-04-0 557-05-1 629-59-4, Tetradecane 1190-63-2, Cetyl stearate 1306-38-3, Cerium oxide, biological studies 1308-38-9, Chromium oxide green, biological studies 1314-13-2, Zinc oxide, biological studies 1318-93-0, Montmorillonite, biological studies 1332-37-2, Iron oxide, biological studies 1344-28-1, Alumina, biological studies 1390-65-4, Carmine 1592-23-0 7631-86-9, Silica, biological studies 7727-43-7, Barium sulfate 7787-59-9, Bismuthoxychloride 9000-07-1, Carrageenan 9000-65-1, Traganth gum 9000-69-5, Pectin 9002-88-4 9002-89-5, Polyvinyl alcohol 9003-07-0, Polypropylene 9003-39-8, Polyvinylpyrrolidone 9004-34-6, Cellulose, biological studies 9004-34-6D, Cellulose, derivs. 9004-54-0, Dextran, biological studies 9004-62-0, Hydroxyethylcellulose 9005-25-8, Starch, biological studies 9005-25-8D, Starch, derivs. 9005-32-7, Alginic acid 10043-11-5, Boron nitride, biological studies 10101-66-3, Manganese violet 10196-69-7, Strontium Stearate 12173-47-6, Hectorite 12227-89-3, C.I. 77499 12240-15-2, C.I. Pigment Blue 27 12441-09-7D, Sorbitan, esters with olive oil 13463-67-7, Titania, biological studies 14807-96-6, Talc, biological studies 17671-27-1, Behenylbehenate 22413-03-2, Behenyl stearate 24800-44-0, Tripropyleneglycol 25265-71-8, Dipropyleneglycol 25265-75-2, Butanediol 26264-14-2, Propanediol 26762-52-7, Hexanediol 30399-84-9, Isostearic acid 34464-38-5, Isodecane 34464-41-0, Isotetradecane 42233-70-5 50814-20-5 52186-01-3 56090-54-1, Triglycerin 57455-37-5, C.I. Pigment Blue 29 59113-36-9, Diglycerin 77035-98-4 77035-99-5 127566-70-5, Behenvl oleate RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)

(cosmetic mascaras containing waxes and hydrocolloids)

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ACCESSION NUMBER:
                       2007:31359 CAPLUS Full-text
DOCUMENT NUMBER:
                        146:123095
TITLE:
                        Dendritic-polymer-based bydrogels containing
                        nanoparticles
INVENTOR(S):
                        Carnahan, Michael A.; Clark, Jeffrev A.; Grinstaff,
                        Mark W.; Stockman, Kenneth E.
PATENT ASSIGNEE(S):
                       Hyperbranch Medical Technology, Inc., USA
```

(cosmetic mascaras containing waxes and hydrocolloids)

PCT Int. Appl., 403pp. SOURCE:

L16 ANSWER 8 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

CODEN: PIXXD2 Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

DOCUMENT TYPE:

PAT	ENT I	NO.			KIN	D	DATE			APPL	ICAT	ION	NO.		D.	ATE	
						-									-		
WO	2007	0052	49		A2		2007	0111		WO 2	006-	US23	723		2	0060	619
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KN,	KP,	KR,
		KΖ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,	MW,
		MX,	MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RS,	RU,	SC,
		SD,	SE,	SG,	SK,	SL,	SM,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,
		UΖ,	VC,	VN,	ZA,	ZM,	ZW										
	RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,
		IS,	IT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	BJ,
		CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG,	BW,	GH,
		GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
		KG,	KZ,	MD,	RU,	TJ,	TM										

PRIORITY APPLN. INFO.: US 2005-694944P P 20050629

Dendritic-polymer-based hydrogels containing nanoparticles

AB One aspect of the present invention relates to compns. comprising polymers and nanoparticles that form hydrogels useful as lens replacement materials, lens substitute materials, corneal inlays, and intraocular lenses. The hydrogals of the invention can be formed using a polyacrylate, silicone, or dendritic macromol. In certain instances, the hydrogels of the invention comprise nanoparticles ranging in diameter from about 0.1 nm to about 100 nm. The nanoparticles are generally dispersed throughout the hydrogel and may be covalently or noncovalently crosslinked. The nanoparticles may be made of a metal, metal oxide, or ceramic. In certain instances, the nanoparticles comprise a ceramic core coated with a layer of silica. Another aspect of the present invention relates to a method of forming a lens composition comprising treating a mixture of a polymerizable dendrimeric compound and nanoparticles with a polymerization agent. Another aspect of the present invention relates to a nanoparticle comprising a core coated with a layer of silica. In certain instances, the core is made of a metal, metal oxide, or ceramic. Another aspect of the invention relates to a kit for forming a lens comprising a polymerizable dendrimeric compound, nanoparticles, and a system for delivering the dendrimeric compound and nanoparticles to the lens bag of a patient.

IΤ Human

Intraocular lenses

Lenses

Nanoparticles

(dendritic-polymer-based hydrogels containing nanoparticles)

Dendrimers

Polysiloxanes, uses

Polyurethanes, uses

RL: TEM (Technical or engineered material use); USES (Uses) (dendritic-polymer-based hydrogels containing nanoparticles)

Prosthetic materials and Prosthetics

(endocapsular lens; dendritic-polymer-based hydrogels containing nanoparticles)

Styrene-butadiene rubber, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(hydrogenated, block, triblock; dendritic-polymer-based hydrogels containing nanoparticles)

Ceramics

(nanoparticles; dendritic-polymer-based hydrogels containing

```
nanoparticles)
   Metals, uses
    Oxides (inorganic), uses
    Proteins
    Sulfides, uses
    Zeolites (synthetic), uses
    RL: TEM (Technical or engineered material use); USES (Uses)
       (nanoparticles; dendritic-polymer-based hydrogels containing
       nanoparticles)
    Hydrogeis
        (non-reversible; dendritic-polymer-based hydrogels containing
       nanoparticles)
    2035-75-8P, Adipic anhydride 30424-64-7DP, benzylidene acetal-terminated
    91990-68-0P 338425-95-9P 338425-97-1P 338425-99-3P 374107-84-3P
    374107-85-4P
                  374107-86-5P 374107-89-8P 377073-42-2P 377073-43-3P,
    2-(cis-1,3-0-Benzylidene glycerol)succinic acid mono ester
    377073-46-6DP, benzylidene acetal-terminated 377073-46-6P
                                                                 436803-73-5P
    , 2-(cis-1,3-0-Benzylidene glycerol) succinic acid mono ester anhydride,
    preparation 436803-74-6P 436803-75-7P 455281-37-5P 455281-38-6P 455281-39-7P 455281-40-0P 455281-41-1P 455281-42-2P 455281-43-3P
    455281-62-6P, preparation 455281-63-7P, preparation 455281-65-9P
    455281-66-0P 455281-67-1P 457068-63-2P 457068-64-3P 474251-89-3P
    474251-91-7P, preparation 474251-93-9P 474251-95-1P 474251-98-4P
    651332-49-9P 686774-58-3DP, benzylidene-protected 686774-58-3P
    686774-65-2P 686774-74-3P 686774-77-6P 686774-81-2DP, benzylidene
    acetal-terminated 686774-81-2P 686774-83-4P 686774-85-6P
    686774-87-8P 686774-89-0P 686774-91-4P 686774-94-7P 686775-00-8P
    686775-02-0P 686775-04-2P 686775-14-4P 686775-18-8P 686775-20-2P
    686775-41-7P 686776-70-5P 686776-71-6P 686776-73-8P 686776-74-9P
    686776-75-0P 686776-76-1P 686776-77-2P 686776-78-3P 686776-80-7P
    686776-83-0P 686776-84-1P 686776-85-2DP, deprotected 686776-85-2P
    688007-35-4P 688007-36-5P 880160-56-5P 880160-57-6P 880160-58-7P
    880343-37-3P 918550-40-0P 918550-41-1P
    RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
    (Reactant or reagent)
        (dendritic-polymer-based hydrogels containing nanoparticles)
    918550-36-4 918550-37-5 918550-38-6 918550-39-7
    RL: POF (Polymer in formulation); TEM (Technical or engineered material
    use); USES (Uses)
        (dendritic-polymer-based hydrogels containing nanoparticles)
ΙT
    97-67-6, L-Malic acid 110-15-6, Succinic acid, reactions 124-04-9,
    Adipic acid, reactions 405-39-0 513-42-8, 2-Methyl-2-propen-1-ol
    538-75-0, DCC 544-63-8, Myristic acid, reactions 598-72-1,
    2-Bromopropionic acid 920-46-7, Methacryloyl chloride 4141-19-9,
    cis-1,3-0-Benzylidene glycerol 6066-82-6, N-Hydroxy succinimide
    14690-00-7 58479-61-1, tert-Butylchlorodiphenylsilane 91944-64-8
    RL: RCT (Reactant); RACT (Reactant or reagent)
       (dendritic-polymer-based hydrogels containing nanoparticles)
    9002-89-5, Polyvinyl alcohol 9011-14-7, Polymethylmethacrylate
    233682-93-4, 2-Hydroxyethyl methacrylate-6-hydroxyhexyl methacrylate
    copolymer
    RL: TEM (Technical or engineered material use); USES (Uses)
    (dendritic-polymer-based <u>hydrogels</u> containing nanoparticles) 1305-78-8, Calcium oxide, uses 1306-38-3, Cerium dioxide, uses
     1314-13-2, Zinc oxide, uses 1314-23-4, Zirconium dioxide, uses
     1344-28-1, Aluminum oxide, uses 7440-44-0, Carbon, uses
    7440-57-5, Gold, uses 7631-86-9, Silicon dioxide, uses
    7782-40-3. Diamond, uses 13463-67-7, Titanium dioxide, uses
    20667-12-3, Silver oxide
    RL: TEM (Technical or engineered material use); USES (Uses)
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(nanoparticles; dendritic-polymer-based $\underline{nydrogels}$ containing nanoparticles)

IT 694491-73-1D, hydrogenated, block, triblock

RL: TEM (Technical or engineered material use); USES (Uses) (styrene-butadiene rubber; dendritic-polymer-based <u>hydrogels</u> containing nanoparticles)

L16 ANSWER 9 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2006:1201869 CAPLUS Full-text

DOCUMENT NUMBER: 145:494054

TITLE: One-step process for preparing composite nanogel

INVENTOR(S): Xu, Zhichang; Zhang, Ping

PATENT ASSIGNEE(S): Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 9pp.

CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1712428	A	20051228	CN 2004-10048065	20040614
PRIORITY APPLN. INFO.:			CN 2004-10048065	20040614
IT Aging, materials				

IT Aging, mate: Composites Hydrogels

Hydrolysis
(one-step process for preparing composite nanogel)

II 2314-12-2P, Zinc oxide, preparation 1345-13-7P, Cerium trioxide
18868-43-4P, Molybdenum dioxide 20427-58-1P, Zinc hydroxide
RL: CPS (Chemical process); PEP (Physical, engineering or chemical
process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(one-step process for preparing composite nanogel)

IT 1306-38-3P, Cerium dioxide, preparation 1314-23-4P, Zirconium dioxide, preparation 1344-28-1P, Aluminum trioxide, preparation 7758-88-5P, Cerium trifluoride 12612-50-9P, Molybdenum sulfide 13463-67-7P, Titanium dioxide, preparation

RL: SPN (Synthetic preparation); PREP (Preparation) (one-step process for preparing composite nanogel)

L16 ANSWER 10 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2006:1038109 CAPLUS Full-text

DOCUMENT NUMBER: 2006:103810

TITLE: Hydrogel supports for cDNA microarray printing in screening libraries by reverse transfection

INVENTOR(S): Frutos, Anthony G.; Lahiri, Joydeep; Pal, Santona;

Tran, Elizabeth; Webb, Brian L. PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 18pp.

CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

US 20060223184 A1 20061005 US 2005-99904 20050405
PRIORITY APPLN. INFO.: US 2005-99904 20050405

Liposomes

(cationic, as transfection agent, microarray immobilization on hydrodels of; hydrogel supports for cDNA microarray printing in screening libraries by reverse transfection)

Lipids, uses

RL: ARG (Analytical reagent use); DEV (Device component use); ANST (Analytical study); USES (Uses)

(cationic, as transfection agent, microarray immobilization on hydrogels of; hydrogel supports for cDNA microarray printing in screening libraries by reverse transfection)

ΙT Insecta

> (cells of, microarray immobilization on hydrogels of; hydrogel supports for cDNA microarray printing in screening libraries by reverse transfection)

Nucleosides, uses

Nucleotides, uses

RL: ARG (Analytical reagent use); DEV (Device component use); ANST (Analytical study); USES (Uses)

(derivs., microarray immobilization on hydrogels of; hydrogel supports for cDNA microarray printing in screening libraries by reverse transfection)

DNA microarray technology

Hydrogels

(hydrogel supports for cDNA microarray printing in screening libraries by reverse transfection)

Amino group

Carboxyl group Hydroxyl group

Sulfhydryl group (hydrogels functionalized with; hydrogel supports for cDNA

microarray printing in screening libraries by reverse transfection) ΙT Aldehydes, reactions

Anhydrides

Epoxides

Esters, reactions

RL: MOA (Modifier or additive use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)

(hydrogels functionalized with; hydrogel supports for cDNA microarray printing in screening libraries by reverse transfection)

Antibodies and Immunoglobulins DNA

Proteins

RL: ARG (Analytical reagent use); DEV (Device component use); ANST (Analytical study); USES (Uses)

(immobilized, on bydrogels; hydrogel supports for cDNA

microarray printing in screening libraries by reverse transfection) Acids, reactions

RL: MOA (Modifier or additive use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)

(inorg., hydrogels functionalized with; hydrogel supports for cDNA microarray printing in screening libraries by reverse transfection)

Animal cell

(insect, microarray immobilization on hydrogels of; hydrogel supports for cDNA microarray printing in screening libraries by reverse transfection)

Animal cell

(mammalian, microarray immobilization on hydrogels of; hydrogel supports for cDNA microarray printing in screening libraries by reverse transfection)

```
Animal cell
    Aptamers
    Chromophores
    Eubacteria
    Fluorescent substances
    Nanostructures
    Plant cell
    Plasmids
    Viral vectors
    Virus
        (microarray immobilization on hydrogels of; hydrogel supports
       for cDNA microarray printing in screening libraries by reverse
       transfection)
ΤТ
    Agglutinins and Lectins
    Amino acids, uses
    Antibodies and Immunoglobulins
    Chelates
    DNA
    Haptens
    Nucleic acids
    Peptides, uses
    Polysaccharides, uses
    Proteins
    RGD peptides
    RNA
    RL: ARG (Analytical reagent use); DEV (Device component use); ANST
     (Analytical study); USES (Uses)
        (microarray immobilization on hydrogels of; hydrogel supports
       for cDNA microarray printing in screening libraries by reverse
       transfection)
    Microtiter plates
        (microarray immobilization on hydrogels on; hydrogel supports
       for cDNA microarray printing in screening libraries by reverse
       transfection)
    Immobilization, molecular or cellular
       (on hydrogels; hydrogel supports for cDNA microarray printing
       in screening libraries by reverse transfection)
    Acids, reactions
    RL: MOA (Modifier or additive use); RCT (Reactant); RACT (Reactant or
    reagent); USES (Uses)
        (organic, hydrogels functionalized with; hydrogel supports for
       cDNA microarray printing in screening libraries by reverse
       transfection)
    RL: ARG (Analytical reagent use); DEV (Device component use); ANST
     (Analytical study); USES (Uses)
        (short hairpin, microarray immobilization on hydrogels of;
       hydrogel supports for cDNA microarray printing in screening libraries
       by reverse transfection)
    Microscopes
       (slides, microarray immobilization on hydrogels on; hydrogel
       supports for cDNA microarray printing in screening libraries by reverse
       transfection)
    Double stranded RNA
    RL: ARG (Analytical reagent use); DEV (Device component use); ANST
```

(small interfering, microarray immobilization on <u>bydrogels</u> of; hydrogel supports for cDNA microarray printing in screening

1313-96-8, Niobium oxide (Nb2O5) 1314-13-2, Zinc oxide (ZnO),

(Analytical study); USES (Uses)

libraries by reverse transfection)

uses 1314-61-0, Tantalum oxide (Ta205) 1317-38-0, Copper oxide (CuO), uses 1333-82-0, Chromium trioxide 1324-23-1, Aluminum trioxide, uses 1760-24-3, N-(β-Aminoethyl)-3-aminopropyl triethoxysilane 5089-72-5, N-(β-Aminoethyl)-3-aminopropyl triethoxysilane 7631-86-2, Silicon dioxide, uses 9006-26-2, Ethylene-Maleic anhydride copolymer 9011-13-6, Maleic anhydride-styrene copolymer 9011-13-6, Maleic anhydride-styrene copolymer 9011-13-6, Maleic anhydride-styrene copolymer 9011-13-6, Maleic anhydride-loctadecene copolymer 26426-80-2, Isobutylene-maleic anhydride-loctadecene copolymer 26426-80-2, Isobutylene-maleic anhydride-opolymer 31473-53-7, Maleic anhydride-l-tetradecene copolymer 52193-47-2 146786-73-4 150380-11-3 189134-57-4, Zinc oxide (ZnO2) RL: TBM (Technical or engineered material use); USES (Uses) (bonding layer; hydrogel supports for cDNA microarray printing in screening libraries by reverse transfection)

IT 79-10-7, Acrylic acid, reactions

RL: MOA (Modifier or additive use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)

(hydrogels functionalized with; hydrogel supports for cDNA

microarray printing in screening libraries by reverse transfection)

900-07-1, Carrageenan 900-69-5, Pectin 9002-89-5, Polyvinyl alcohol

9002-98-6, Polyethylenimine 9003-01-4, Polyacrylic acid 9003-05-8,
Polyacrylamide 9004-32-4, Carboxymethylcellulose 9004-34-6, Cellulose,
uses 9004-54-0, Dextran, uses 9004-61-9, Myaluronic acid 9005-25-8,
Starch, uses 9005-32-7, Alginic acid 9005-49-6, Heparin, uses
9007-28-7, Chondroitin sulfate 9012-36-6, Agarose 9012-76-4, Chitosan
9015-73-0 9044-05-7D, reaction products, crosslinked 9050-30-0
24967-94-0, Dermatan sulfate 25104-18-1, Poly-L-lysine 25322-68-3,
Polyethylene glycol 37293-51-9, Aminodextran 38000-06-5, Poly-L-lysine
70226-44-7, Heparan 75634-40-1, Dermatan
RL: DBV (Device component use): USES (Uses)

RL: DEV (Device component use); USES (Uses)
(hydrogets of; hydroget supports for cDNA microarray printing

in screening libraries by reverse transfection)

6066-82-6, N-Hydroxy succinimide 25952-53-8 RL: RCT (Reactant); RACT (Reactant or reagent)

(in preparation crosslinked carboxymethyldextran <u>hydrogels;</u> hydrogel supports for cDMA microarray printing in screening libraries by reverse transfection)

L16 ANSWER 11 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:798433 CAPLUS Full-text
DOCUMENT NUMBER: 145:250871

TITLE: Solar-control low-E coating material, its preparation

method and application
INVENTOR(S): Cao, Xinyu; Jiang, Lei

PATENT ASSIGNEE(S): Zhongke Nanotech Engineering Center Co., Ltd., Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 18pp.

CODEN: CNXXEV
DOCUMENT TYPE: Patient

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

IΤ

PATENT NO. KIND DATE APPLICATION NO. DATE

CN 1696221 A 20051116 CN 2004-10009078 20040511
PRIORITY APPLN. INFO:: CN 2004-10009078 20040511

AB Title coating material is prepd. by sequentially dispersing doped metal oxide (such as tin oxide, zinc oxide, etc.) nanoparticles 3-30 wt%, polymeric film

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forming ingredients (such as water soluble epoxy resin, polyurethane emulsion,
     etc.) 20-60 wt%, and UV absorbents (such as titanium oxide, ferric oxide,
     etc.) 0-10 wt % into a dispersion medium (such as water, mixture of water and
     ethanol, etc.). The coating material free of toxic volatile components can be
     directly applied on surface of glass or organic materials to effect sunlight
     control and IR reflection.
    Epoxy resins, uses
    RL: TEM (Technical or engineered material use); USES (Uses)
       (esters; solar-control low-E coating material, its preparation method and
       application)
    Epoxy resins, uses
    RL: TEM (Technical or engineered material use); USES (Uses)
       (polyurethane-; solar-control low-E coating material, its preparation
method
       and application)
    Acrylic polymers, uses
    Alkyd resina
    Epoxy resins, uses
    Oxides (inorganic), uses
    Polyesters, uses
    Polyurethanes, uses
    RL: TEM (Technical or engineered material use); USES (Uses)
       (solar-control low-E coating material, its preparation method and
       application)
    95-14-7, 1H-Benzotriazole 131-56-6, 2,4-Dihydroxybenzophenone
    131-57-7, 2-Hydroxy-4-methoxy benzophenone 1314-23-4, Zirconium oxide,
    uses 1314-35-8, Tungsten oxide, uses 1332-37-2, Iron oxide, uses
    1344-28-1, Aluminum oxide, uses 1843-05-6, 2-Hydroxy-4-n-
    octyloxybenzophenone 2440-22-4, 2-(2'-Hydroxy-5'-
    methylphenyl)benzotriazole 3896-11-5, 2-(2'-Hydroxy-3'-tert-butyl-5'-
    methylphenyl)-5-chlorobenzotriazole 4065-45-6, 2-Hydroxy-4-
    methoxybenzophenone-5-sulfonic acid 7631-86-9, Silicon oxide,
    uses 11129-60-5, Manganese oxide
    RL: TEM (Technical or engineered material use); USES (Uses)
       (UV absorber; solar-control low-E coating material, its preparation method
       and application)
    1306-19-0, Cadmium oxide, uses 1312-43-2, Indium oxide 1314-13-2
    , Zinc oxide, uses 1332-29-2, Tin oxide 13463-67-7, Titanium oxide,
    uses
    RL: TEM (Technical or engineered material use); USES (Uses)
       (nanoparticles; solar-control low-E coating material, its preparation
method
       and application)
    79-10-7D, Acrylic acid, ester, resin 311-89-7, FC-43
    39467-17-9, Tin zinc oxide 906081-51-4, Baybond PU 239 906081-54-7,
    IIVB 4
    RL: TEM (Technical or engineered material use); USES (Uses)
       (solar-control low-E coating material, its preparation method and
       application)
L16 ANSWER 12 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
                       2006:504513 CAPLUS Full-text
ACCESSION NUMBER:
DOCUMENT NUMBER:
                        145:14836
TITLE:
                        Manufacture of chitosan hydrogel burn dressing with
                        gradient structure
INVENTOR(S):
                        Liu, Jiyan; Peng, Xianghong; Liu, Xueqing; Chen,
                        Chunhua; Zhang, Yuanfang
PATENT ASSIGNEE(S):
                        Jianghan University, Peop. Rep. China
SOURCE:
                        Faming Zhuanli Shenging Gongkai Shuomingshu, 15 pp.
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CODEN: CNXXEV

ΙT

ΙT

DOCUMENT TYPE: LANGUAGE: Patent Chinese FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

CN 1679972 A 20051012 CN 2005-10018241 20050202

PRIORITY APPLN. INFO.: CN 2005-10018241 20050202 IT Burn

Hydrogels

(manufacture of chitosan hydrogel burn dressing with gradient structure)

471-34-1, Calcium carbonate, uses $\underline{1324-13-2}$, Zinc oxide, uses $\underline{1344-28-1}$, Alumina, uses $\underline{7632-86-2}$, Silicon oxide, uses

RL: NUU (Other use, unclassified); USES (Uses)

(manufacture of chitosan hydrogel burn dressing with gradient structure)

L16 ANSWER 13 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:1050505 CAPLUS Full-text

DOCUMENT NUMBER: 143:332601

TITLE: Multivitamin, mineral and anticholesteremic

PATENT ASSIGNEE(S): Bubnis, William; cocc...
Wyeth, USA
U.S. Pat. Appl. Publ., 18 pp. nutritional supplements
Bubnis, William; Cotter, Richard; Herman, Paul W.

DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE US 20050214383 A1 20050929 US 2005-90486 20050328 AU 2005228421 A1 20051013 AU 2005-228421 20050328 CA 2560595 A1 20051013 CA 2005-2560595 20050328 WO 2005094333 A2 20051013 WO 2005-US10467 20050328 WI AE, AG, AL, AM, AT, AU, AZ, BB, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, NM, MM, MX, MX, AN, AN, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TT, TT, TZ, UA, UG, US, UZ, VC, VN, UJ, AZ, MM,
US 20050214383 A1 20050929 US 2005-90486 20050328 AU 2005228421 A1 20051013 AU 2005-228421 20050328 CA 2560595 A1 20051013 CA 2005-22860595 20050328 WO 2005094333 A2 20051013 WO 2005-US10467 200550328 WI AE, AG, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MM, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
AU 2005228421 A1 20051013 AU 2005-228421 20050328 CA 2560595 A1 20051013 CA 2005-2560595 20050328 W0 2005094333 A2 20051013 W0 2005-US10467 20050328 W0 2005094333 A3 20060216 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, 1D, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
CA 2560995 A1 20051013 CA 2005-2560595 20050328 W0 2005094333 A2 20051013 W0 2005-094033 A3 20060216 B, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MM, MW, MX, MA, NI, NN, NX, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SI, SM,
MO 2005094333 A2 20051013 WO 2005-US10467 20050328 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GB, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MN, MX, MN, NA, NI, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
WO 2005094333 A3 20060216 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, 5D, SE, SG, SK, SL, SM,
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LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
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SV TI TM TN TD TT TZ IIA IIG IIS IIZ WC WN VII ZA ZM
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RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML,
MR, NE, SN, TD, TG
EP 1732605 A2 20061220 EP 2005-731047 20050328
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR
CN 1956734 A 20070502 CN 2005-80016543 20050328
BR 2005009374 A 20070911 BR 2005-9374 20050328
US 20060024352 A1 20060202 US 2005-236570 20050928
MX 2006PA11027 A 20061116 MX 2006-PA11027 20060926
PRIORITY APPLN. INFO.: US 2004-557247P P 20040329
US 2005-90486 A2 20050328

IT Drug delivery systems

(chewing gums; multivitamin, mineral and anticholesteremic nutritional supplements)

IT Absorbents

Anticholesteremic agents Dietary supplements

Drying Fillers

Granulation

Milling (size reduction)

(multivitamin, mineral and anticholesteremic nutritional supplements)
IT 50-81-7, Vitamin C, biological studies 58-56-0, Pyridoxine hydrochloride

58-85-5, Biotin 58-95-7, Vitamin E acetate 59-30-3, Folic acid, biological studies 59-43-8, Thiamin, biological studies 59-67-6, Niacin, biological studies 67-97-0, Vitamin D3 68-19-9, Vitamin B12 79-83-4, Pantothenic acid 83-88-5, Riboflavin, biological studies 98-92-0, Niacinamide 127-40-2, Lutein 127-47-9, Vitamin A acetate 141-01-5, Ferrous fumarate 502-65-8, Lycopene 532-43-4 557-04-0, Magnesium stearate 1309-48-4, Magnesium oxide, biological studies 1314-13-3, Zinc oxide, biological studies 1406-16-2, Vitamin D 1406-18-4, Vitamin E 7235-40-7, β-Carotene 7439-89-6, Iron, biological studies 7439-95-4, Magnesium, biological studies 7439-96-5, Manganese, biological studies 7439-98-7, Molybdenum, biological studies 7440-02-0, Nickel, biological studies 7440-09-7, Potassium, biological 7440-21-3, Silicon, biological studies 7440-31-5, Tin, biological studies 7440-42-8, Boron, biological studies 7440-47-3, Chromium, biological studies 7440-50-8, Copper, biological studies 7440-62-2, Vanadium, biological studies 7440-66-6, Zinc, biological studies 7440-70-2, Calcium, biological studies 7447-40-7, Potassium chloride, biological studies 7553-56-2, Iodine, biological studies 7631-86-9, Silicon dioxide, biological studies 7631-95-0, Sodium molybdate 7681-11-0, Potassium iodide, biological studies 7723-14-0, Phosphorus, biological studies 7757-93-9, Dibasic calcium phosphate 7758-98-7, Copper sulfate, biological studies 7782-49-2, Selenium, biological studies 7785-87-7, Manganese sulfate 7786-81-4, Nickel sulfate 8059-24-3, Vitamin B6 9003-43-4, Polyvinyl pyrrolidine 9005-25-8, Starch, biological studies 10025-73-7, Chromium chloride 12001-79-5, Vitamin K 13410-01-0, Sodium selenate (CrCl3) 13718-26-8, Sodium metavanadate 16887-00-6, Chloride, biological studies 74811-65-7. Croscarmellose sodium

RL: FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(multivitamin, mineral and anticholesteremic nutritional supplements)

L16 ANSWER 14 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:961474 CAPLUS Full-text
DOCUMENT NUMBER: 143:253990

TITLE: Anti-infectious hydrogel compositions

INVENTOR(S): Gruening, Rainer; Perschbacher, Doug J.; Qu, Xin;

Buongiovanni, David
PATENT ASSIGNEE(S): Hydromer, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 11 pp.

CODEN: USXXCO DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	US 20050191270			A1 20050901			US 2004-788663					20040227							
	AU	AU 2005220708			A1 20050922				AU 2005-220708					20050218					
	CA	CA 2555250			A1 20050922				CA 2005-2555250					20050218					
	WO	WO 2005086641				A2	2 20050922			WO 2005-US5323				20050218					
	WO	0 2005086641			A3	A3 20061102													
		W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,	
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	
			LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,	
			NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	
			SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
		RW:	BW,	GH,	GM,	KE,	LS,	MW,	ΜZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	
			ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	
			EE,	ES,	FΙ,	FR,	GB,	GR,	HU,	ΙE,	IS,	IT,	LT,	LU,	MC,	NL,	PL,	PT,	
			RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	
			MR,	NE,	SN,	TD,	TG												
	CN	1960	736			A		2007	0509		CN 2	005-	8000	6175		2	0050	218	
	BR	2005	0800	45		A	20070717			BR 2005-8045				20050218					
	JP	2007	5255	84		T		2007	0906	JP 2007-500900					20050218				
	US 20060198814					A1	20060907				US 2006-416060					20060502			
MX 2006PA09727					A	20061208				MX 2006-PA9727					20060825				
PRIORITY APPLN. INFO.:										US 2	004-	7886	63	- 2	A 2	0040	227		
											WO 2	005-	US53	23	1	<i>i</i> 2	0050	218	
TT	D		1 2																

IT Drug delivery systems

ΙT

(bydrogels; anti-infectious hydrogel compns.)

50-02-2, Dexamethasone 50-21-5, Lactic acid, biological studies 50-78-2, Aspirin 50-81-7, Vitamin c, biological studies 52-51-7, Bronopol 53-06-5, Cortisone 54-42-2, Idoxuridine 55-56-1, Chlorhexidine 56-81-5, Glycerin, biological studies 64-17-5, Ethanol, biological studies 67-63-0, Isopropanol, biological studies 69-72-7, Salicylic acid, biological studies 79-09-4, Propionic acid, biological studies 100-51-6, Benzyl alcohol, biological studies 101-20-2 110-44-1, Sorbic acid 112-37-8, Undecanoic acid 122-99-6, Phenoxyethanol 141-22-0, Ricinoleic acid 141-94-6, Hexetidine 378-44-9, Betamethasone 557-28-8, Zinc propionate 1314-13-3, Zinc oxide, biological studies 1398-61-4, Chitin 1406-18-4, Vitamin E 2398-96-1, Tolnaphthate 3380-34-5, Triclosan 7235-40-7, β Carotene 7440-22-4D, Silver, salts 7440-33-7, Tungsten, biological studies 7440-69-9D, Bismuth, compds. 7553-56-2, Iodine, biological studies 7681-11-0, Potassium iodide, biological studies 7704-34-9, Sulfur, biological studies 7727-43-7, Barium sulfate 9002-89-5, Polyvinyl alcohol 9002-98-6, Polyethylenimine 9003-20-7, Polyvinyl acetate 9004-34-6D, Cellulose, derivs. 9004-61-9, Hyaluronic acid 9004-64-2, Hydroxypropylcellulose 9004-70-0, Nitrocellulose 9005-25-8, Starch, biological studies 9005-25-8D, Starch, derivs. 9005-32-7D, Alginic acid, salts 9005-49-6, Heparin, biological studies 9005-49-6D, Heparin, derivs. 9011-16-9, Methyl vinyl ether-co-maleic anhydride 9012-76-4, Deacetyl chitin 9012-76-4D, Chitosan, pyrrolidone carboxylate derivs. 9012-76-4D, Chitosan, salts 9036-19-5, Octoxynol-9 11103-57-4, Vitamin A 13392-28-4, Rimantadine 13463-41-7, Zinc pyrithione 22199-08-2, Silver sulfadiazine 22916-47-8, Miconazole 23593-75-1, Clotrimazole 24937-78-8, Poly(ethylene-co-vinyl acetate) 25189-55-3, Poly(N-isopropyl acrylamide) 25249-16-5, Poly(2-hydroxyethyl methacrvlate) 25322-68-3, Polvethyleneoxide 26027-38-3, Nonoxynol-9 26570-48-9, Polyethylene glycol diacrylate 27176-87-0, Dodecyl benzene sulfonic acid 27220-47-9, Econazole 36791-04-5, Ribavirin 38885-23-3 42617-20-9, Chitosan acetate 59277-89-3, Acyclovir 62711-98-2, O-Carboxymethyl chitosan 66240-42-4, Deacetyl chitin 66267-50-3, Chitosan lactate 66267-52-5, Chitosan formate 66771-47-9, Chitosan

niacinate 68239-42-9D, Methyl gluceth, derivs. 83512-85-0, N-Carboxymethylchitosan 84563-57-5, Chitosan propionate 84563-67-7, Chitosan salicylate 84563-76-8, Chitosan glutamate 84563-77-9, Chitosan glycolate 87582-10-3, Chitosan acetate 91161-71-6, Terbinafine 91869-07-7, Chitosan maleate 107043-88-9, N,O-Carboxymethyl chitosan 119519-66-3, Chitosan itaconate 119519-73-2 250773-23-0, Chitosan sorbate 862107-42-4, Chitosan gallate RL: FEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(anti-infectious hydrogel compns.)

111-30-8, Glutaraldehyde 151-51-9D, Methanediimine, derivs. 151-56-4D,
Aziridine, derivs. 1344-28-1, Alumina, reactions 6902-77-8,
Genipin 7632-85-9, Silica, reactions 13463-67-7, Titanium
dioxide, reactions 13598-78-2D, Aminosilane, polymers 30525-89-4,
Paraformaldehyde
RL: RCT (Reactant); RACT (Reactant or reagent)

L16 ANSWER 15 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:288941 CAPLUS $\underline{\text{Full-text}}$

(anti-infectious hydrogel compns.)

DOCUMENT NUMBER: 142:485852
TITLE: Determination of the environment of lanthanide ions in

a simplified non-active nuclear glass and its weathering gel products - europium as a structural

luminescent probe

AUTHOR(S): Thevenet, Frederic; Panczer, Gerard; Jollivet,

Patrick; Champagnon, Bernard

CORPORATE SOURCE: LPCML, Laboratoire de Physico-Chimie des Materiaux Luminescents, Villeurbanne, 69 622, Fr.

SOURCE: Journal of Non-Crystalline Solids (2005), 351(8&9),

673-677

CODEN: JNCSBJ; ISSN: 0022-3093

PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT Bydrogels

(weathering, nuclear waste glass; use of Eu as a structural luminescent probe in determination of the environment of lanthanide ions in French nuclear

waste glass SON68 and its weathering gel products)

IT 1303-86-2, Boron oxide (B203), properties 1305-78-8, Calcia, properties 1309-37-1, Ferric oxide, properties 1313-59-3, Sodium oxide (Na20), properties 1314-13-2, Zinc oxide (Zn0), properties 1314-23-4,

Zirconia, properties 1344-28-1, Alumina, properties

<u>7631-36-9</u>, Silica, properties 12057-24-8, Lithium oxide (Li20), properties

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(glass, calcium sodium aluminoborosilicate, nuclear wasteform; use of Eu as a structural luminescent probe in determination of the environment of lanthanide ions in French nuclear waste glass SON68 and its weathering gel products)

L16 ANSWER 16 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:259422 CAPLUS $\underline{\text{Full-text}}$

DOCUMENT NUMBER: 142:312762

TITLE: Low-fluorescent, chemically durable hydrophobic

patterned substrates for the attachment of

biomolecules

Haines, Daniel; Knoedler, Christina INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE: U.S. Pat. Appl. Publ., 47 pp.

CODEN: USXXCO DOCUMENT TYPE: Pat.ent. English

LANGUAGE: FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
US 20050064209	A1	20050324	US 2004-778332	20040217		
PRIORITY APPLN. INFO.:			US 2004-778332	20040217		
IT Hydrogels						

(as reactive compound on substrate; low-fluorescent, chemical durable hydrophobic patterned substrates for attachment of biomols.)

7631-86-9, Fumed silica, uses

RL: DEV (Device component use); USES (Uses)

(colloidal, as particle filler in layer of crosslinkable silicone; low-fluorescent, chemical durable hydrophobic patterned substrates for attachment of biomols.)

1303-86-2, Boron oxide (B2O3), uses 1304-28-5, Barium oxide (BaO), uses 1305-78-8, Calcium Oxide, uses 1309-48-4, Magnesium oxide (MgO), uses

 $\begin{array}{lll} 1309-64-4, & \text{Antimony oxide (Sb2O3), uses} & 1313-59-3, & \text{Sodium oxide (Na2O), uses} \\ \underline{334-13-2}, & \text{Zinc oxide (ZnO), uses} & 1317-36-8, & \text{Lead oxide} \\ \end{array}$

(PbO), uses 1327-53-3, Arsenic oxide (As2O3) 1344-28-1,

Aluminum oxide, uses 12136-45-7, Potassium oxide (K2O), uses

13463-67-7, Titanium oxide, uses

RL: DEV (Device component use); USES (Uses)

(glass substrate containing; low-fluorescent, chemical durable hydrophobic patterned substrates for attachment of biomols.)

L16 ANSWER 17 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:238420 CAPLUS Full-text

DOCUMENT NUMBER: 142:322334

TITLE: Baby care skin protectant compositions containing zeolites for diaper rash

Gupta, Shyam K. Bioderm Research, USA

PATENT ASSIGNEE(S):

SOURCE: U.S. Pat. Appl. Publ., 12 pp.

CODEN: USXXCO Patent

DOCUMENT TYPE: LANGUAGE: English FAMILY ACC. NUM. COUNT: 9

PATENT INFORMATION:

INVENTOR(S):

PATENT NO. KIND DATE APPLICATION NO. DATE -----US 20050058672 A1 20050317 US 2003-605191 US 20070237834 A1 20071011 US 2007-760466 20030914 US 2003-605191 20030914 US 2003-418495 A2 20030914 US 2003-605191 A2 20030914 PRIORITY APPLN. INFO.:

TΤ

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);

(oleoresins, capsicum; skin care compns. containing zeolites for prevention/treatment of diaper rash)

Absorbents

```
Beeswax
Coloring materials
Cotton fibers
Disposable diapers
Fungicides
Gossypium hirsutum
  Gums and Mucilages
Humectants
Ion exchangers
Ion pairs
Perfumes
Permeation enhancers
Preservatives
Seed
Shampoos
Silk
Solubilizers
Sunscreens
Surfactants
Wheat flour
   (skin care compns. containing zeolites for prevention/treatment of diaper
Polymers, biological studies
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
USES (Uses)
   (water absorbents; skin care compns. containing zeolites for
   prevention/treatment of diaper rash)
7631-86-9, Fumed silica, biological studies
RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study);
USES (Uses)
   (colloidal; skin care compns. containing zeolites for prevention/treatment
   of diaper rash)
50-81-7, Ascorbic acid, biological studies 50-81-7D, Ascorbic acid,
salts 56-81-5, Glycerin, biological studies 57-11-4, Stearic acid,
biological studies 57-55-6, Propylene glycol, biological studies
58-95-7, Vitamin E acetate 59-67-6, Niacin, biological studies
59-67-6D, Niacin, esters 70-18-8, Glutathione, biological studies
77-52-1, Ursolic acid 79-81-2, Vitamin A palmitate 93-60-7, Methyl
nicotinate 94-13-3, Propylparaben 94-44-0, Benzyl nicotinate
94-62-2, Piperine 97-59-6, Allantoin 98-92-0, Niacinamide 99-76-3,
Methylparaben 102-71-6, Triethanolamine, biological studies 112-03-8D,
Quaternium-10, zeolite 117-39-5, Quercetin 122-99-6, Phenoxyethanol
127-40-2, Lutein 146-48-5, Yohimbine 153-18-4, Rutin 305-84-0,
Carnosine 327-97-9, Chlorogenic acid 404-86-4, Capsaicin 471-53-4,
Glycyrrhetinic acid 472-11-7, Ruscogenin 472-61-7, Astaxanthin
476-66-4, Ellagic acid 477-32-7, Visnadine 491-70-3, Luteolin
501-36-0, Resveratrol 502-65-8, Lycopene 512-04-9, Diosgenin
520-26-3, Hesperidin 520-27-4, Diosmin 520-36-5, Apigenin 528-58-5,
Cyanidin 531-75-9, Esculoside 548-04-9, Hypericin 602-41-5,
Thiocolchicoside 1200-22-2, \alpha-Lipoic acid 1314-13-2,
Zinc oxide, biological studies 2344-28-1, Alumina, biological
studies 1406-18-4, Vitamin E 1847-58-1, Sodium lauryl sulfoacetate
```

4773-96-0, Mangiferin 5508-58-7, Andrographolide 6147-11-1, Mangostin 6683-19-8, Tinogard TT 6805-41-0, Escin 6829-50-6, Tocotrienol 6899-10-10, Cetrimonium, zeolite 7487-88-9, Magnesium sulfate,

Analgesics Anesthetics

TT

Anti-inflammatory agents Antibacterial agents Antimicrobial agents

biological studies 7778-18-9, Calcium sulfate 8011-96-9, Calamine 9000-01-5, Gum arabic 9000-07-1, Carrageenan 9000-40-2, Locust bean gum 9000-69-5, Pectin 9002-18-0, Agar 9004-34-6, Cellulose, biological studies 9005-25-8, Starch, biological studies 9005-32-7D, Alginic acid, salts 9005-38-3, Algin 9005-80-5, Inulin 9005-80-5D, Inulin, esters 9006-65-9, Dimethicone 9012-76-4. Chitosan 10043-52-4, Calcium chloride, biological studies 11099-07-3, GMS-SE 11138-66-2, Xanthan gum 11138-66-2D, Xanthan, dehydro derivs. 12001-79-5, Vitamin K 13463-67-7, Titanium dioxide, biological studies 14492-68-3D, Quaternium-7, zeolite 14807-96-6, Talc, biological studies 16830-15-2, Asiaticoside 20283-92-5, Rosmarinic acid 25322-68-3, Polyethylene glycol 26006-22-4D, Polyquaternium-5, zeolite 26062-79-3D, Polyquaternium-6, zeolite 26590-05-6D, Polyquaternium-7, zeolite 32619-42-4, Oleuropein 36062-04-1, Tetrahydrocurcumin 36653-82-4, Cetyl alcohol 53633-54-8D, Polyguaternium-11, zeolite 55306-04-2, Sericoside 59219-65-7, Darutoside 63451-27-4D, Polyquaternium-2, zeolite 66634-12-6, Niacinamide salicylate 71010-52-1, Gellan gum 75345-27-6D, Polyquaternium-1, zeolite 81859-24-7D, Polyquaternium-10, zeolite 92183-41-0D, Polyquaternium-4, zeolite 95144-24-4D, Polyquaternium-16, zeolite 95832-09-0, Liquapar 150599-70-5D, Polyquaternium-44, zeolite 173833-36-8D, Quaternium 82, zeolite 174761-16-1D, Polyquaternium-46, zeolite 174882-69-0, Pycnogenol 205537-77-5 322645-84-1, Polawax 697291-65-9, Phytosan 714950-07-9, Aloe Butter 719282-79-8D, Polyguaternium 59, zeolite 801297-48-3D, Quaternium 79, zeolite 848084-68-4, Stimutex RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(skin care compns. containing zeolites for prevention/treatment of diaper rash)

L16 ANSWER 18 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:99572 CAPLUS $\underline{\text{Full-text}}$

DOCUMENT NUMBER:

INVENTOR(S):

142:178205

TITLE: Preparation of water-absorbent <u>resin</u> compositions with good deodorization, hygroscopic, fluid, separation-resistant, gel strength, and absorption

properties for absorbent materials Ueda, Hiroko; Wada, Katsuyuki; Nakashima, Yasuhisa

PATENT ASSIGNEE(S): Nippon Shokubai Co., Ltd., Japan

SOURCE: PCT Int. Appl., 88 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATE		10.			KIN	D	DATE		1	APPL		ION I			D	ATE	
WO 2005010102				A1		20050203		WO 2004-JP10896					20040723				
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,
		LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NA,	NI,	NO,
		NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	TJ,
		TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	zw	
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
		ΑZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
		EE,	ES,	FΙ,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,
		SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,

	SN, TD,	TG						
AU	2004259960		A1	20050203	AU	2004-259960		20040723
JP	2005060677		A	20050310	JP	2004-216530		20040723
EP	1648966		A1	20060426	EP	2004-748103		20040723
	R: BE, DE,	FR,	GB					
BR	2004012858		A	20061003	BR	2004-12858		20040723
CN	1852949		A	20061025	CN	2004-80027083		20040723
IN	2006KN00032		A	20070803	IN	2006-KN32		20060103
US	20060189738		A1	20060824	US	2006-565324		20060120
KR	755476		В1	20070904	KR	2006-701546		20060123
MX	2006PA01014		A	20060801	MX	2006-PA1014		20060125
PRIORITY	APPLN. INFO	. :			JP	2003-280373	A	20030725
					WO	2004-JP10896	W	20040723

REFERENCE COUNT:

15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

T Preparation of water-absorbent <u>resin</u> compositions with good deodorization, hygroscopic, fluid, separation-resistant, gel strength, and

deodorization, hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials AB Title water-absorbent regin compns. comprise a water-absorbent resin

obtainable by polymerizing an unsatd. monomer having an acid group and/or a salt thereof, and complex oxide hydrate containing zinc and silicon, or zinc and aluminum, wherein the complex oxide hydrate contains zinc as main metal component, the mass ratio of the content of zinc and the content of silicon or aluminum is in the range of 50/50 - 99/1, and the absorption capacity at 60min toward 0.90 mass% sodium chloride aqueous solution under the pressure of 1.9 kPa is not less than 20 g/g. Thus, 3.4 g polyethylene glycol diacrylate and 38% 5500 g an aqueous sodium acrylate solution with neutralization degree 75 mol% were polymerized to give a hydrogel, which was dried at 150°, pulverized, classified by particle size, and mixed the classified particles, 100 parts of the resulting water-absorbent resin powder was mixed with 3.83 parts a surface crosslinking agent containing propylene glycol 0.5, ethylene glycol diglycidyl ether 0.03, and 1,4-butanediol 0.3 parts, heated at 210° for 55 min to give a water-absorbent resin with absorption capacity 35 g/g without load and 32 g/g under pressure 1.9 kPa, 100 parts of which was mixed with 0.50 parts Ceratiox SZ 100S a complex oxide hydrate of zinc and silicon (zinc/silicon = 82/18, average particle diameter 0.36 μ m), showing absorption

(zinc/silicon = 82/18, average particle diameter 0.36 μ m), showing absorption capacity 36 g/g without load and 32 g/g under 1.9 kPa, good deodorization of hydrogen sulfide and ammonia, hygroscopic blocking rate, and separation ratio.

IT Bydrogels

(absorbent; preparation of water-absorbent <u>resin</u> compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

IT Polyoxyalkylenes, uses

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (acrylic, crosslinked; preparation of water-absorbent resin compns. with good hygroscopic, fluid, separation-resistant, gel strength,

compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

Oxides (inorganic), uses

RL: MOA (Modifier or additive use); USES (Uses)

(deodorants; preparation of water-absorbent <u>resin</u> compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

IT Embryophyta

Plants

(extractants, deodorants; preparation of water-absorbent <u>resun</u> compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials.

IT Camellia

(exts., deodorants; preparation of water-absorbent resin compns.

with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

IT Absorbents

(hydrogels; preparation of water-absorbent resin compns.

with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

II Absorbents

Deodorants

(preparation of water-absorbent <u>resin</u> compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption

properties for absorbent materials)

IT Fibers

RL: TEM (Technical or engineered material use); USES (Uses) (preparation of water-absorbent resin compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

IT Medical goods

(sanitary napkins; preparation of water-absorbent <u>resin</u> compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

IT 1314-13-3DP, Zinc oxide, hydrated

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)

(blend with metal oxide, deodorant; preparation of water-absorbent resin compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

13463-67-7DP, Titanium oxide, hydrated

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses) (blend with silicon oxide, deodorant; preparation of water-absorbent

resin compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

II 1344-29-1DP, Aluminum oxide, hydrated 7631-86-9DP, Silicon oxide, hydrated

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)

(blend with zinc oxide, deodorant; preparation of water-absorbent \(\frac{x \in y \in y}{\text{compns}} \) compns. with good hygroscopic, fluid, separation-resistant, qel strength, and absorption properties for absorbent materials)

T 634588-11-7, FS 80MO 835628-30-3, Ceratiox SZ 100S

RL: MOA (Modifier or additive use); USES (Uses)

(deodorant; preparation of water-absorbent <u>resin</u> compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

IT 357617-37-9P 632327-14-1P

RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (preparation of water-absorbent <a href="mailto:mss.nc) mss.nc) compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

IT 1344-09-8, Sodium silicate 7550-45-0, Titanium chloride, processes 7733-02-0, Zinc sulfate 10043-01-3D, Aluminum sulfate, hydrated RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PROC (Process)

(reactant in deodorant preparation; preparation of water-absorbent <u>news.s</u>
compns. with good hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials)

DOCUMENT NUMBER: 142:97167

TITLE: Catalytically active amorphous porous solid and

process for its preparation

INVENTOR(S): Calemma, Vincenzo; Flego, Cristina; Carluccio, Luciano

Cosimo; Millini, Roberto; Parker, Wallace PATENT ASSIGNEE(S): ENI S.p.A., Italy; Enitecnologie S.p.A.

SOURCE: PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

	PATENT NO.					DATE				ICAT				D	ATE		
WO 200				A1										2	0040	625	
W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,	
	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	
	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,	
	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	
	ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW	
RW	: BW,	GH,	GM,	KE,	LS,	MW,	ΜZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	
	AZ,	BY,	KG,	ΚZ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	
	EE,	ES,	FΙ,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,	
	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	
	SN,	TD,	TG														
EP 164	1560			A1		2006	0405		EP 2	2004-	7403	39		2	0040	625	
R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
										HU,							
NO 2006000004				A											0060	102	
US 20070010395				A1		2007	0111		US 2	2006-	5632	09		2	0060	525	
PRIORITY AP	.:						IT 2	2003-1	MI13	60		A 2	0030	703			
										2004-1							
REFERENCE C	OINT.			6	т	HERE	ARE	6 C	TTEL	REF	EREN	CES	AVAT	LARLI	E FO	R THT	

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

- IT 56-81-5, Glycerol, uses 1303-86-2, Boria, uses 1344-28-1, Alumina, uses 7631-86-9, Silica, uses 9004-67-5, Methyl cellulose 11099-07-3, Stearine

RL: CAT (Catalyst use); PRP (Properties); USES (Uses) (catalytically active amorphous porous solid and process for its

preparation)

1 313-99-1P, Nickel oxide, uses 1314-08-5P, Palladium oxide

1.314-12-2P, Zinc oxide, uses 1314-23-4P, Zirconium oxide, uses

1314-62-1P, Vanadium oxide, uses 1332-29-2P, Tin oxide 1332-37-2P,
Iron oxide, uses 7440-66-4P, Platinum, uses 11098-99-0P, Molybdenum
oxide 11104-61-3P, Cobalt oxide 11118-57-3P, Chromium oxide

11129-89-8P, Platinum oxide 12024-21-4P, Gallium oxide 13463-67-7P,
Titanium oxide, uses 58858-31-4P, Aluminum phosphorus silicon oxide
RE: CAT (Catalyst use); PRP (Properties); SPN (Synthetic preparation);
PREP (Preparation); USES (Uses)

(catalytically active amorphous porous solid and process for its preparation) $% \left(1\right) =\left(1\right) \left(1\right) \left($

L16 ANSWER 20 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2004:1124539 CAPLUS Full-text

DOCUMENT NUMBER: 142:52408

TITLE: Catalyst to reduce carbon monoxide in the mainstream

smoke of a cigarette
INVENTOR(S): Koller, Kent B.: Dee

INVENTOR(S): Koller, Kent B.; Deevi, Sarojini
PATENT ASSIGNEE(S): Philip Morris Products S.A., Switz.

SOURCE: PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.						DATE											
	2004																	
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA	, BI	В,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM	, D:	Z,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN	, I:	s,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD	, M	Э,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO	, RI	U,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
		ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG	, U	s,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW,	GH,	GM,	KΕ,	LS,	MW,	ΜZ,	NA	, SI	D,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
		ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ΤJ,	TM	, A:	Γ,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
		EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE	, I	Γ,	LU,	MC,	NL,	PL,	PT,	RO,	SE,
		SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI	, Cl	м,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,
			TD,															
AU	2004	2468	80		A1		2004	1223		AU	20	004-	2468	80		2	0040	610
	2527																	
EP	1635	655			A1		2006	0322		EP	20	004-	7365	58		2	0040	610
EP	1635	655			B1		2007	1024										
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB	, GI	R,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FI,	RO,	CY,	TR	, B0	Э,	CZ,	EE,	HU,	PL,	SK		
BR	2004	0114	41		A		2006	0718		BR	20	004-	1144	1		2	0040	610
CN	1805	694			A		2006	0719		CN	20	004-	8001	6481		2	0040	610
JP	2007 3763	5276	98		T		2007	1004		JP	20	006-	5165	90		2	0040	610
ΑT	3763	67			T		2007	1115		ΑT	20	004-	7365	58		2	0040	610
	2293																	
MX	2005	PA13	558		A		2006	0405		MX	20	005-1	PA13	558		2	0051	213
NO	2006	0001	03		A		2006	0106		NO	20	006-	103			2	0060	106
	2006						2007	0817										
RIT	Y APP	LN.	INFO	. :														
REN	CE CO	UNT:			5	1	HERE	ARE	5 (CITE	ED	REF	EREN	CES	AVAI	LABL	E FO	R THIS

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT Catalysts
Colloids

Mydrogels
Magnetic particles
Molecular sieves
Nanoparticles
Nicotiana tabacum
Particle size
Surface area

PR

(catalyst to reduce carbon monoxide in mainstream smoke of cigarette)
1303-86-2, Boron oxide, uses 1309-37-1, Iron oxide, uses 1309-48-4,
Magnesium oxide, uses 1313-99-1, Nickel oxide, uses 1314-13-2,
Zinc oxide, uses 1314-23-4, Zirconium oxide, uses 1314-35-8, Tungsten

oxide, uses 1332-29-2, Tin oxide 1344-28-1, Aluminum oxide, uses 1344-70-3, Copper oxide 7631-86-9, Silicon oxide, uses 11098-99-0, Molybdenum oxide 11104-61-3, Cobalt oxide 11113-77-2, Palladium oxide 11113-84-1, Ruthenium oxide 11129-18-3, Cerium oxide 11129-89-8, Platinum oxide 12055-23-1, Hafnium oxide 12624-27-0, Rhenium oxide 12627-00-8, Niobium oxide 12645-46-4, Iridium oxide 12680-36-3, Rhodium oxide 13463-67-7, Titanium oxide, uses 20667-12-3, Silver oxide 39403-39-9, Gold oxide 59763-75-6, Tantalum oxide 61970-39-6, Osmium oxide 157858-56-5, Germanium oxide RL: CAT (Catalyst use); MOA (Modifier or additive use); USES (Uses) (catalyst to reduce carbon monoxide in mainstream smoke of cigarette)

L16 ANSWER 21 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2004:1124536 CAPLUS Full-text

Patent

DOCUMENT NUMBER: 142:52405

TITLE: Nanoscale catalyst particle/aluminosilicate to reduce carbon monoxide in the mainstream smoke of a cigarette INVENTOR(S): Luan, Zhaohua; Deevi, Sarojini; Fournier, Jay A.;

Skinner, Ila; Koller, Kent B.; Gee, Diane L. PATENT ASSIGNEE(S): Philip Morris Products S.A., Switz.

SOURCE: PCT Int. Appl., 40 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE: English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	TENT :			KIN	D	DATE			APPL	ICAT				_	ATE		
	2004				A2		2004	1223		WO 2						0040	
WO	2004	1101	83		A3		2005	0127									
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
		TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
		AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
		EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,
		SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,
		SN,	TD,	TG													
US	IS 20040250828				A1		2004	1216		US 2	003-	4606	32		2	0030	613
US	JS 7165553				B2		2007	0123									
ידד	Y APP	LN.	INFO	. :						US 2	003-	4606	32		A 2	0030	613

IT Catalysts Hydrogels Nanoparticles Particle size Pore size Surface area Temperature Thermal decomposition

> (nanoscale catalyst particle/aluminosilicate to reduce carbon monoxide in mainstream smoke of cigarette)

1306-38-3, Ceria, uses 1309-37-1, Iron oxide, uses 1309-48-4, Magnesium oxide, uses 1314-13-2, Zinc oxide, uses 1314-36-9, Yttrium oxide, uses 11115-92-7, Iron oxide hydroxide 13463-67-7, Titania, uses 206887-21-0, Nanocat

RL: CAT (Catalyst use); MOA (Modifier or additive use); USES (Uses) (nanoscale catalyst particle/aluminosilicate to reduce carbon monoxide in mainstream smoke of cigarette)

144-62-7D, Oxalic acid, metal complexes 1336-21-6, Ammonium hydroxide 1343-98-2, Silicic acid 7446-70-0, Aluminum chloride, processes <u>7631-86-9</u>, Silica, processes 10043-01-3, Aluminum sulfate 13473-90-0, Aluminum nitrate 14024-18-1

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PROC (Process)

(nanoscale catalyst particle/aluminosilicate to reduce carbon monoxide in mainstream smoke of cigarette)

L16 ANSWER 22 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2004:984813 CAPLUS Full-text

141:415625

DOCUMENT NUMBER:

TITLE: Stabilization of self-tanning products with lavered

silicates

INVENTOR(S): Mueller, Anja; Eitrich, Anja PATENT ASSIGNEE(S): Beiersdorf A.-G., Germany SOURCE: Eur. Pat. Appl., 48 pp.

CODEN: EPXXDW DOCUMENT TYPE: Patent

LANGUAGE: German FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE EP 1477159 21 C A1 20041117 EP 2004-8693 20040410 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR A1 20041202 DE 2003-10321147 20030512 DE 10321147 A 20030512 PRIORITY APPLN. INFO.: DE 2003-10321147

3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT The invention concerns self-tanning products in form of O/W emulsions,

AB hydrodispersions, Pickering emulsions or hydrogels that contain layered silicates as stabilizing agents. Further ingredients are sunscreens and inorg, pigments; the compns. contain little or no emulsifiers; they can be free of carbomers and Xanthan qum. 1,3-Dihydroxyacetone is used as tanning agent. Thus a PIT emulsion contained (weight/weight%): glycerin monostearate 0.50; PEG-100 stearate 5.00; cetyl alc. 2.50; cethyl dimethicone copolyol 0.50; 1.3-dihydroxyacetone 2.0; hectorite 0.50; Bu methoxy dibenzoyl methane 1.50; ethylhexyl methoxycinnamate 8.00; ethylhexyl salicylate 4.00; phenylbenzimidazole sulfonic acid 1.00; dicaprylyl ether 4.00; phenyltrimethicone 2.00; glycerin 10.0; tocopherol 1.00; iodopropyl butylcarbamate 0.12; phenoxyethanol 0.50; perfume 0.20; water to 100. IT Emulsifying agents

Hydrogels

Pigments, nonbiological Stabilizing agents

Suntanning agents

(stabilization of self-tanning products with layered silicates) 96-26-4, 1,3-Dihydroxyacetone 96-26-4D, 1,3-Dihydroxy acetone, derivs 118-60-5, 2-Ethylhexyl salicylate 1314-13-2, Zinc oxide, biological studies 1344-28-1, Alumina, biological studies 5466-77-3, 2-Ethylhexyl 4-methoxycinnamate 11138-66-2, Xanthan gum 12001-31-9, Disteardimonium hectorite 12173-47-6, Hectorite

12691-60-0, Stearalkonium hectorite 13463-67-7, Titanium dioxide, biological studies 27503-81-7, Phenylbenzimidazole sulfonic acid

70356-09-1, Butyl methoxy dibenzoyl methone 88122-99-0 92761-26-7, Terephthalylidene-3,3'-dicamphor-10,10'-disulfonic acid 154702-15-5, Dioctyl butamido triazone 155633-54-8, Drometrizole trisiloxane 191419-26-8, Aniso Triazine

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses) (stabilization of self-tanning products with layered silicates)

L16 ANSWER 23 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2004:836528 CAPLUS Full-text

DOCUMENT NUMBER: 141:340075

TITLE: Quantum dot white and colored light-emitting devices INVENTOR(S): Miller, Jeffrey N.; Moon, Ronald L.; Bawendi, Moungi

E.; Heine, Jason; Jensen, Klavs F.

PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA SOURCE: U.S., 14 pp., Cont.-in-part of U.S. 6,501,091.

SOURCE: U.S., 14 pp., Cont.-in-part of U.S. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FAIENI NO.	KIND	DAIL	AFFLICATION NO.	DAIL
US 6803719	B1	20041012	US 1999-350956	19990709
US 6501091	B1	20021231	US 1998-167795	19981007
US 20030127659	A1	20030710	US 2002-329596	20021226
US 6890777	B2	20050510		
US 20030127660	A1	20030710	US 2002-329909	20021226
US 6914265	B2	20050705		
US 20040259363	A1	20041223	US 2004-877698	20040625
US 7264527	B2	20070904		
PRIORITY APPLN. INFO.:			US 1998-92120P P	19980401
			US 1998-167795 A2	2 19981007
			US 1999-350956 A3	3 19990709
REFERENCE COUNT:	3	THERE ARE 3	CITED REFERENCES AVAILA	ABLE FOR THIS
		RECORD. ALL	CITATIONS AVAILABLE IN	THE RE FORMAT

IT Aydrogels

(host; photoluminescent quantum dot compns. and light-emitting devices with color conversion layers formed from them and their use for producing light of desired colors)

II 111-40-0D, Diethylenetriamine, reaction products with formaldehyde-Ph glycidyl ether copolymer and 6-mercaptohexanol 1633-78-9D, 6-Mercaptohexanol, reaction products with diethylenetriamine and formaldehyde-Ph glycidyl ether copolymer 7631-86-9, Silica, uses 9003-83-6, Polystyrene 97052-23-8D, Formaldehyde-phenyl glycidyl ether copolymer, reaction products with diethylenetriamine and 6-mercaptohexanol 146250-82-0, 1,6-Hexanediol dimethacrylate-lauryl methacrylate copolymer RL: DEV (Device component use); USES (Uses)

(host; photoluminescent quantum dot compns. and light-emitting devices with color conversion layers formed from them and their use for producing light of desired colors)

IT 1303-00-0, Gallium arsenide, uses 1303-11-3, Indium arsenide, uses 1306-29-6, Cadmium sulfatide, uses 1306-23-6, Cadmium sulfide, uses 1306-24-7, Cadmium selenide, uses 1306-25-8, Cadmium telluride, uses 1312-41-0, Indium antimonide 1313-04-8, Magnesium selenide 1313-0-9-9, Zinc sulfide, uses 1314-98-3, Zinc sulfide, uses 1315-09-9, Zinc selenide 1315-11-3, Zinc telluride 1344-48-5, Mercury sulfide (HgS) 9002-88-4, Polyethylene 9003-5-8, Polyacrylamide 9004-34-6, Cellulose, uses 9012-36-6, Agarose 12032-36-9, Magnesium sulfide 12063-98-8, Gallium phosphide (GaP), uses 12064-03-8, Callium

antimonide 12068-90-5, Mercury telluride 20601-83-6, Mercury selenide (HgSe) 20859-73-8, Aluminum phosphide 21908-53-2, Mercury oxide (HgO) 22398-80-7, Indium phosphide, uses 22831-42-1, Aluminum arsenide

24304-00-5, Aluminum nitride 25152-52-7, Aluminum antimonide 25617-97-4, Gallium nitride 25617-98-5, Indium nitride 30604-81-0,

Polypyrrole 82370-43-2, Polyimidazole

RL: DEV (Device component use); USES (Uses)

(photoluminescent quantum dot compns. and light-emitting devices with color conversion layers formed from them and their use for producing light of desired colors)

L16 ANSWER 24 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2004:802268 CAPLUS Fuli-text

DOCUMENT NUMBER: 141:301040

TITLE: Tacky skin care compositions and articles containing emollients and tackifying and immobilizing agents

INVENTOR(S): Klofta, Thomas James

USA PATENT ASSIGNEE(S): SOURCE:

U.S. Pat. Appl. Publ., 12 pp. CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PA	PATENT NO.				KIN	D	DATE						NO.			ATE	
	2004						2004	0930		US 2	003-	4028	20		2	0030	328
		ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
							DE,										
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
							TZ,										
	RW:	BW,	GH,	GM,	KΕ,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,
		BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,
		ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	ΙT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,	SI,
		SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,
		TD,	TG														
EP	1608	332			A1		2005	1228		EP 2	004-	7585	42		2	0040	329
	R:						ES,										
							RO,										
	1761						2006										
	2006				T		2006	0914									
PRIORIT	PRIORITY APPLN. INFO.:												20				
										WO 2	004-	US95	92	1	W 2	0040	329

Absorbents

(pads, cosmetic; tacky skin care compns. used in medical and cosmetic articles containing emollients and tackifying agents and immobilizing

Hydrocarbons, biological studies

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(resins, as tackifying agents; tacky skin care compns. used

in medical and cosmetic articles containing emollients and tackifying agents and immobilizing agents)

112-92-5, CO1897 1314-13-2, Zinc oxide, biological studies 7631-86-9, Cab-O-Sil M5, biological studies 9003-29-6 765286-93-9

RL: COS (Cosmetic use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(tacky skin care compns. used in medical and cosmetic articles containing emollients and tackifying agents and immobilizing agents)

L16 ANSWER 25 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2003:836324 CAPLUS Full-text

DOCUMENT NUMBER: 139:311901

TITLE: Process for preparing reactive compositions for fluid

treatment

INVENTOR(S): Hughes, Kenneth D.

PATENT ASSIGNEE(S): Watervisions International, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 19 pp.

CODEN: USXXCO DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.					D	DATE				ICAT					ATE	
US	2003	0196			A1 B2		2003: 2004:									0020	
	2003		13				2003			WO 2	003-	US11	960		2	0030	417
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,	OM,
		PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,
		TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW					
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,	BY,
		KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
		FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,
		BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
AU	AU 2003222624						2003	1103		AU 2	003-	2226	24		2	0030	417
PRIORIT:	PRIORITY APPLN. INFO.:									US 2	002-	1250	72		A 2	0020	417
										WO 2	003-	US11	960		W 2	0030	417
DEFEDEN	OF CO	TIME.			c	т	HEDE	700	6 0	TTED	DEE	PDEM	ope	7 5 7 7 T	TADI	e eo	D THE

REFERENCE COUNT: THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Conducting polymers

Superabsorbents

(as binder; process for preparing reactive composites for fluid treatment by filtration)

Resins

RL: TEM (Technical or engineered material use); USES (Uses) (cellulosic, as binder; process for preparing reactive composites for fluid treatment by filtration)

75-01-4D, Vinylchloride, functionalized 79-10-7D, Acrylic acid, functionalized 100-42-5D, Styrene, functionalized 471-34-1, Calcium carbonate, uses 546-93-0, Magnesium carbonate 1305-62-0, Calcium hydroxide, uses 1305-78-8, Calcium oxide, uses 1309-42-8, Magnesium hydroxide 1309-48-4, Magnesium oxide, uses 1310-14-1, Goethite 1314-13-2, Zinc oxide, uses 1317-57-3, Glauconite 1317-60-8, Hematite, uses 1321-74-0D, Divinylbenzene, functionalized 1332-37-2, Iron oxide, uses 1335-30-4, Aluminum silicate 1343-88-0, Magnesium silicate 1344-28-1, Aluminum oxide, uses 1344-69-0, Copper hydroxide 1344-70-3, Copper oxide 1344-95-2, Calcium silicate 7631-86-9, Silicon oxide, uses 7757-93-9 7758-87-4 7779-90-0, Zinc phosphate 7784-09-0, Silver phosphate 7784-30-7,

Aluminum phosphate 7790-76-3 10043-83-1, Magnesium phosphate

10103-46-5, Calcium phosphate 10103-48-7, Copper phosphate 10124-54-6, Manganese phosphate 10290-71-8, Iron carbonate 10402-24-1, Iron phosphate 11113-66-9, Iron hydroxide 11129-61-6, Manganese oxide 11129-61-6, Manganese silicate 12022-37-6, Lepidocrocite 12134-66-6, Manghamite 12173-10-3, Clinophilolite 12396-03-1D, Octaphosphoric acid, calcium salts 12673-39-1, Iron silicate 13463-67-7, Titanium oxide, uses 13477-39-9, Calcium metaphosphate 1376-95-2, Zirconium phosphate 14455-29-9, Aluminum carbonate 14808-60-7, Quartz, uses 14854-26-3, Pyrolusite 1838-13-9D, Methacrylate, functionalized 21645-51-2, Aluminum hydroxide, uses

RL: TEM (Technical or engineered material use); USES (Uses) (process for preparing reactive composites for fluid treatment by filtration)

L16 ANSWER 26 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2003:742279 CAPLUS Full-text

DOCUMENT NUMBER: 140:7652

TITLE: Structural features of a Eu3+ doped nuclear glass and

gels obtained from glass leaching

AUTHOR(S): Ollier, N.; Concas, G.; Panczer, G.; Champagnon, B.;

Charpentier, T.

CORPORATE SOURCE: Laboratoire de Physico-Chimie des Materiaux

Luminescents, Universite Claude Bernard, UMR 5620

CNRS, Villeurbanne, 69622, Fr.

SOURCE: Journal of Non-Crystalline Solids (2003), 328(1-3), 207-214

CODEN: JNCSBJ: ISSN: 0022-3093

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT Hwirecels

(aluminoborosilicate; structure of a Eu3+-doped nuclear waste aluminoborosilicate glass and of gels obtained from the glass by leaching)

III 1303-86-2, Boron oxide (B203), processes 1304-28-5, Barium oxide (BaO), processes 1305-78-8, Calcia, processes 1312-81-8, Lanthanum oxide la203 1313-59-3, Sodium oxide (Na20), processes 1314-13-2, Zinc oxide (ZnO), processes 1314-23-4, Zirconium oxide (ZrO2), processes 1314-25-1, Alumina, processes 7631-86-2, Silica

processes

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PRCC (Process); USES (Uses)

(glass, aluminoborosilicate; structure of a Eu3+-doped nuclear waste aluminoborosilicate glass and of gels obtained from the glass by leaching)

L16 ANSWER 27 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2003:651194 CAPLUS Full-text

DOCUMENT NUMBER: 139:233906

TITLE: Hydrogel route to nanotubes of metal oxides and

sulfates
AUTHOR(S): Gundiah, Gautam; Mukhopadhyay, Samrat; Tumkurkar, Usha

Govind; Govindaraj, A.; Maitra, Uday; Rao, C. N. R.
CORPORATE SOURCE: Chemistry and Physics of Materials Unit, CSIR Centre
of Excellence in Chemistry, Jawaharlal Nehru Centre

for Advanced Scientific Research, Jakkur P.O.,

Bangalore, 560 064, India

SOURCE: Journal of Materials Chemistry (2003), 13(9),

2118-2122

CODEN: JMACEP; ISSN: 0959-9428

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT <u>Bydrogels</u> Nanotubes

(hydrogel route to nanotubes of metal oxides and sulfates)

1314-13-3P, Zinc oxide, preparation 1314-23-4P, Zirconia,
preparation 1314-35-8P, Tungsten trioxide, preparation

preparation 1314-35-8P, Inngsten trioxide, preparation 7631-85-9P, Silica, preparation 7727-43-7P, Barium sulfate 7733-02-0P, Zinc sulfate 13463-67-7P, Titania, preparation

RL: PRF (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(nanotubes; hydrogel route to nanotubes of metal oxides and sulfates)

L16 ANSWER 28 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:603878 CAPLUS Full-text

DOCUMENT NUMBER: 139:158292
TITLE: Semiconductor nanocrystals for inventory control

INVENTOR(S): Bawendi, Moungi G.; Jensen, Klavs F.

PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA SOURCE: U.S., 19 pp., Cont.-in-part of U.S. Ser. No. 160,458.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 9
PATENT INFORMATION:

PRI

	PATENT NO.										LICAT					ATE	
US US CA	6602 6617 2344	671 583 478			B1 B1 A1		2003 2003 2000	0805 0909 0330		US 1 CA 1	1999-: 1998-: 1999-:	1604 2344	58 478		1	9980: 9990:	924 917
WO		AE, DE, JP, MN,	AL, DK, KE, MW,	AM, EE, KG, MX,	AT, ES, KP, NO,	AU, FI, KR, NZ,	AZ, GB, KZ,	BA, GD, LC, PT,	BB, GE, LK, RO,	BG, GH, LR, RU,	BR, GM, LS, SD,	BY, HR, LT,	CA, HU, LU,	CH, ID, LV,	CN, IL, MD,	CU, IN, MG,	CZ, IS, MK,
		AT, GR,	BE, IE,	BF, IT,	CF, LU,	CG, MC,	CH, ML,	CI, MR,	CM, NE,	CY,	DE,	SE,	SN,	TD,	TG		
JP JP AT PT ES US US US	GR, IE, IT AU 9963923 JP 2002525394 JP 2003524718 AT 273515 PT 1116036 ES 2228107 US 20020160412 US 6774361				T T T T T3 A1 B2 A1		2002 2003 2004 2004 2005 2005 2002 2004 2004	0813 0812 0812 0815 1029 0401 1031 0810 0226		JP 2 JP 2 JP 2 AT 1 PT 1 ES 1 US 2 US 2 US 2 US 1	2000- 2000- 2000- 1999- 1999- 1999- 2002- 2003- 2004- 1998-	5712 5712 5740 5740 9482 9482 9482 1572 6329 8582 1010	65 52 222 73 73 73 32 22 07 46P		1 1 1 1 1 2 2 2 2	9990 9990 9990 9990 9990 9990 0020 0030 0040 9980	917 917 917 917 917 917 917 917 530 804 602 918
										US 1	1998- 1998- 1998-	1009	47P		P 1		918

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US 1998-160454 A 19980924
US 1999-397428 A 19990917
US 1999-397432 A 19990917
US 1999-397436 A 19990917
US 1999-US21373 W 19990917
WO 1999-US21375 W 19990917
WO 1999-US21375 W 19990917
US 2002-157232 A3 20020530
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REFERENCE COUNT: 113 THERE ARE 113 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Capillary tubes Crystal whiskers Disks

> Hydrogels Pellets

(support; semiconductor nanocrystals on supports for inventory control using optical emission)

1303-00-0, Gallium arsenide (GaAs), uses 1303-11-3, Indium arsenide (InAs), uses 1306-19-0, Cadmium oxide (CdO), uses 1306-23-6, Cadmium sulfide (CdS), uses 1306-24-7, Cadmium selenide (CdSe), uses 1306-25-8, Cadmium telluride (CdTe), uses 1312-41-0 1313-04-8, Magnesium selenide (MgSe) 1314-13-2, Zinc oxide (ZnO), uses 1314-98-3, Zinc sulfide (ZnS), uses 1315-09-9, Zinc selenide (ZnSe) 1315-11-3, Zinc telluride (ZnTe) 1344-48-5, Mercury sulfide (HgS) 12032-36-9, Magnesium sulfide (MgS) 12063-98-8, Gallium phosphide (GaP), uses 12064-03-8 12068-90-5, Mercury telluride (HgTe) 20601-83-6, Mercury selenide (HgSe) 20859-73-8, Aluminum phosphide (AlP) 21908-53-2, Mercury oxide (HgO) 22398-80-7, Indium phosphide (InP), uses 22831-42-1, Aluminum arsenide (AlAs) 24304-00-5, Aluminum nitride (AlN) 25152-52-7 25617-97-4, Gallium nitride (GaN) 25617-98-5, Indium nitride (InN)

RL: TEM (Technical or engineered material use); USES (Uses)

(semiconductor nanocrystals on supports for inventory control using optical emission)

7631-86-9, Silica, uses 9002-88-4, Polyethylene 9003-05-8 9003-53-6, Polystyrene 9003-70-7, Divinylbenzene-styrene polymer 9012-36-6, Agarose 25233-34-5, Polythiophene 26793-34-0, Polydimethylacrylamide 30604-81-0, Polypyrrole 82370-43-2, Polyimidazole 96638-49-2, Polyphenylene-vinylene 586976-71-8 RL: TEM (Technical or engineered material use); USES (Uses) (support; semiconductor nanocrystals on supports for inventory control

using optical emission)

L16 ANSWER 29 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2003:63279 CAPLUS Full-text

DOCUMENT NUMBER: 138:142229

TITLE: Deodorant gel compositions containing antibacterial

and antifungal agents

INVENTOR(S): Morikazu, Kejji, Narisada, Naoyuki
PATENT ASSIGNEE(S): S. T. Chemical Co. Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2003024424 A 20030128 JP 2001-210729 20010711 PRIORITY APPLN. INFO.: JP 2001-210729 20010711 MARPAT 138:142229

OTHER SOURCE(S):

IT Adsorbents Air fresheners

Antibacterial agents

Deodorants

Fungicides

Gelation agents

Hydrogels (deodorant gel compns. containing adsorbents and antibacterial and antifungal agents)

52-51-7, 2-Bromo-2-nitropropane-1,3-diol 79-07-2, 2-Chloroacetamide 100-97-0, Hexamethylenetetramine, biological studies 116-25-6,

1-Methylol-5,5-dimethylhydantoin 1314-13-2, Zinc oxide,

biological studies 1317-38-0, Cupric oxide, biological studies 1344-28-1, Alumina, biological studies 4080-31-3,

1-(3-Chloroally1)-3,5,7-triaza-1-azoniaadamantane chloride 6440-58-0

7440-22-4, Silver, biological studies 7631-86-9, Silica,

biological studies 20667-12-3, Silver oxide 37275-76-6, Aluminum zinc oxide 56539-66-3, 3-Methoxy-3-methylbutanol 491868-90-7, Seabio Z 24

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); COS (Cosmetic use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)

(deodorant gel compns. containing adsorbents and antibacterial and antifungal agents)

L16 ANSWER 30 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2002:856413 CAPLUS Full-text

DOCUMENT NUMBER: 137:358216

TITLE: Hydrogel-packed sheet and its use for warming or cooling body parts or foods

INVENTOR(S): Oda, Keizo

PATENT ASSIGNEE(S): Oda Shiso K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002325787	A	20021112	JP 2002-2895	20020110
DDTODTTV ADDIN TNEO .			.TD 2001_58621 3	20010302

IT Coolants Frozen foods

Fruit

Heating systems

Hydrogels Meat

Seafood

Thermal insulators Vegetable

> (body and food warming or cooling sheet packed with crosslinked hydrogel showing good shape retention)

1309-42-8, Magnesium hydroxide 1314-13-2, Zinc white, biological studies 1318-00-9, Vermiculite 1327-44-2, Aluminum potassium silicate 1335-30-4, Aluminum silicate 1344-28-1, Alumina, biological studies 2733-46-2, Allantoin hydroxy aluminum 7446-70-0, Aluminum

chloride, biological studies \$\frac{7621-86-2}{10043-67-1}\$, Potassium alum 12511-31-8, Magnesium aluminum sulfate \$10043-67-1\$, Potassium aluminute metasilicate \$13463-67-7\$, Titania, biological studies \$13473-90-0\$, Aluminum nitrate \$14807-96-6\$, Talc, biological studies \$19088-13-2\$, Aluminum metasilicate \$21645-51-2\$, Aluminum hydroxide, biological studies \$39366-43-3\$, Aluminum magnesium hydroxide \$4563-21-8\$, Titanium silicate \$5671-59-6\$
RI: FFD (Food or feed use); MOX (Modifier or additive use); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (Crosslinker or thickener; body and food warming or cooling sheet

L16 ANSWER 31 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2002:696713 CAPLUS Full-text

DOCUMENT NUMBER: 137:222129

TITLE: Absorbent articles with simplified stable compositions containing emollient and polymeric stability enhancer INVENTOR(S): Kruchoski, Benjamin Joseph; Kottek, Michael Brent;

packed with crosslinked hydrogel showing good shape retention)

Krzysik, Duane Gerard; Cunningham, Corey Thomas; Orchard, Lewis Preole

PATENT ASSIGNEE(S): Kimberly-Clark Worldwide, Inc., USA

SOURCE: U.S. Pat. Appl. Publ., 21 pp., Cont.-in-part of U.S.

Ser. No. 746,880. CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

AB

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20020128621	A1	20020912	US 2001-27264	20011221
US 6689932	B2	20040210		
US 20020128615	A1	20020912	US 2000-746880	20001222
PRIORITY APPLN. INFO.:			US 2000-746880	A2 20001222

The present invention relates to absorbent articles contg. skin care compos. Containing about 40-99% of an emollient and about 1-60% of a stability enhancer are stable on the bodyside liners of absorbent articles despite not containing an immobilizing agent. Surprisingly, the skin care compns. of the invention even demonstrate less migration away from the bodyside liner than do other compns. that contain so-called immobilizing agents. The compns of the invention possess phys. properties, such as m.ps., viscosities and hardnesses, comparable to compns. containing immobilizing agents, making them suitable for use on absorbent articles. For example, a composition containing 61% white petrolatum and 39% Elvax 220 resize in model in means of the model in model in model in means of the model in model in means of the means of the model in model in model in means of the means of the model in model i

(<u>abscrbents</u>; skin care compns. containing emollient and polymeric stability enhancer for coating onto absorbent articles)

IT Absorbents

(medical; skin care compns. containing emollient and polymeric stability enhancer for coating onto absorbent articles)

IT 7631-86-9, Colloidal silica, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (colloidal or silylated; skin care compns. containing emollient and polymeric stability enhancer for coating onto absorbent articles)

IT 50-14-6, Ergocalciferol 56-81-5, Glycerin, biological studies 57-10-3, Palmitic Acid, biological studies 57-11-4, Stearic Acid, biological studies 57-87-4, Ergosterol 57-88-5, Cholesterol, biological studies 60-33-3, Linoleic Acid, biological studies 67-97-0, Cholecalciferol 79-41-4D. Methacrylic acid, esters, polymers 79-62-9, Dihydrolanosterol 79-63-0, Lanosterol 80-97-7, Dihydrocholesterol 83-48-7, Stigmasterol 97-59-6, Allantoin 100-42-5D, Styrene, copolymers 112-53-8, Lauryl Alcohol 112-72-1, Myristyl Alcohol 112-92-5, Stearyl Alcohol 143-07-7, Lauric Acid, biological studies 434-16-2, 7-Dehydrocholesterol 557-34-6, Zinc acetate 661-19-8, Behenyl Alcohol 1314-13-2, Zinc oxide, biological studies 1327-43-1, Magnesium aluminum silicate 3486-35-9, Zinc carbonate 8011-96-9, Calamine 9002-88-4, Polyethylene 9004-62-0D, Hydroxyethyl cellulose, alkyl ethers 9005-25-8, Starch, biological studies 9005-25-8D, Starch, guaternary compds. 9006-65-9, Dimethicone 14807-96-6, Talc, biological studies 24937-78-8, Ethylene-vinyl acetate copolymer 35602-69-8, Cholesteryl stearate 83615-24-1, Cholesteryl isostearate 158567-65-8 160525-18-8, Cholestervl hydroxystearate 418754-56-0 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (skin care compns. containing emollient and polymeric stability enhancer

for coating onto absorbent articles)

L16 ANSWER 32 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:607691 CAPLUS Full-text

DOCUMENT NUMBER: 137:141567

TITLE: Manufacture of water-absorbing resins having high

efficiency in drying step

INVENTOR(S): Tagawa, Daisuke; Fujita, Masahisa; Mukoda, Shingo

PATENT ASSIGNEE(S): Sanyo Chemical Industries, Ltd., Japan SOURCE: Jpn. Kokai Tokkvo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002226599	A	20020814	JP 2001-28395	20010205
RIORITY APPLN. INFO.:			JP 2001-28395	20010205

- PRIORITY APPLM. INFO.: JP 2001-28395 20010205 TI Manufacture of water-absorbing <u>resins</u> having high efficiency in drying step
- AB The process involves mixing (A) water-containing gels of polymers (prepared and undried) with (B) inorg, fine particles and (C) surfactants, followed with drying and optionally granulating and surface-crosslinking with (D) crosslinking agents. The water-absorbing registrates are useful for disposable diapers, soil improvers, etc. Thus, a water-containing gel of Na acrylate-acrylic acid-N,N'-methylenebis(acrylamide) copolymer (reaction ratio 76.7:23:10.3) was extruded, cut, mixed with 2% (on gel solid) of an aqueous dispersion containing talc (Crown Talc P) and polyethylene glycol distearate (Emulami 862), laminated, dried at 140° and 2.0 m/s, and crushed to give powders showing excellent absorption of physiol. saline solution
- ST water absorbing resin manuf high drying speed; inorg fine particle water
 absorbing resin manuf; surfactant addn water absorbing resin manuf;
 acrylic polymer water absorber manuf drying

IT Surfactants

(anionic; manufacture of water-absorbing <u>resins</u> having high efficiency in drying step by addition of)

T Absorbents

Drving

(manufacture of water-absorbing <u>resins</u> having high efficiency in drying step)

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Mineral wool
   (manufacture of water-absorbing resing having high efficiency in
   drving step by addition of)
Asbestos
Carbon black, uses
Carbonates, uses
Chalk
Clavs, uses
Glass fibers, uses
Lime (chemical)
Mica-group minerals, uses
Silicates, uses
Zeolites (synthetic), uses
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical
process); PYP (Physical process); PROC (Process); USES (Uses)
   (manufacture of water-absorbing resins having high efficiency in
   drying step by addition of)
Balloons
Microspheres
   (microballoons; manufacture of water-absorbing resins having high
   efficiency in drying step by addition of)
Surfactants
   (nonionic; manufacture of water-absorbing resins having high
   efficiency in drying step by addition of)
7789-75-5, Calcium fluoride, uses
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical
process); PYP (Physical process); PROC (Process); USES (Uses)
   (activated; manufacture of water-absorbing resins having high
   efficiency in drying step by addition of)
30280-72-9P, Acrylic acid-N, N'-methylenebis(acrylamide) copolymer
76774-22-6P, Acrylic acid-N,N'-methylenebis(acrylamide)-sodium acrylate
copolymer
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical
process); PYP (Physical process); TEM (Technical or engineered material
use); PREP (Preparation); PROC (Process); USES (Uses)
   (manufacture of water-absorbing resins having high efficiency in
   drving step)
1309-48-4, Magnesia, uses 1314-13-2, Zinc oxide, uses
1314-23-4, Zirconia, uses 1317-33-5, Molvbdenum disulfide, uses
1319-46-6, White lead 1338-39-2, Ionet S 20 1344-28-1,
Alumina, uses 7631-86-9, Silica, uses 7727-43-7, Barium
        9005-08-7, Emulmin 862 10043-01-3, Aluminum sulfate
10257-55-3, Calcium sulfite 13463-67-7, Titania, uses 14807-96-6,
Crown Talc P, uses 33939-64-9, Beaulight LCA
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical
process); PYP (Physical process); PROC (Process); USES (Uses)
   (manufacture of water-absorbing resins having high efficiency in
   drving step by addition of)
13397-26-7, Calcite, uses
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical
process); PYP (Physical process); PROC (Process); USES (Uses)
   (powdered; manufacture of water-absorbing resins having high
   efficiency in drying step by addition of)
471-34-1, Calcium carbonate, uses
RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical
process); PYP (Physical process); PROC (Process); USES (Uses)
   (whiting; manufacture of water-absorbing resins having high
   efficiency in drying step by addition of)
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ACCESSION NUMBER: 2002:555377 CAPLUS Full-text

DOCUMENT NUMBER: 137:99039

Stabilized brivudine topical formulations containing TITLE: oxide pigments

Gehlert, Ulrike; Groeger, Karsten; Schmitz, Reinhard; INVENTOR(S):

Schrader, Karl-Heinz; Schrader, Andreas; Wihsmann, Marc; Maggi, Carlo Alberto; Manzini, Stefano;

Stubinski, Bettina

Berlin-Chemie A.-G., Germany; Menarini Ricerche S.p.A. PATENT ASSIGNEE(S): SOURCE: PCT Int. Appl., 21 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PAT	ENT :	NO.			KIN	D	DATE			APP:	LICAT	ION	NO.		D	ATE	
	2002									wo :	2002-	EP16	3		2	0020	110
WO										DD.	D.C.	DD	D1/	DE	0.7	ou	ON
	W :										, BG,						
											, EE,						
											, KG,						
											, MW,						
											, SL,	ΤJ,	TM,	TN,	TR,	TT,	TZ,
								ZA,									
	RW:										, TZ,						
											, IT,						
											, GW,						
CA 2434743 AII 2002244642																	
AU 2002244642																	
EE 200300322																	
										HU :	2003-	2741			2	0020	110
	2003																
EP	1365	772			A2		2003	1203		EP :	2002-	7128	10		2	0020	110
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL,	SE,	MC,	PT,
								MK,									
BR	2002 2004	0064	78		A		2003	1230		BR :	2002-	6478			2	0020	110
JP	2004	5194	60		T		2004	0702		JP :	2002-	5574	20		2	0020	110
	2280				C2		2006	0727		RU :	2003-	1216	39		2	0020	110
IN	2003	DN01	070		A		2007	0105		IN:	2003-	DN10	70		2	0030	708
BG	1079	88			A		2004	0930		BG :	2003-	1079	88		2	0030	710
MX	2003	PA06	307		A		2003	0916		MX :	2003-	PA63	07		2	0030	714
NO	2003	0032	06		A		2003	0715		NO :	2003-	3206					
ZA	2003	0054	37		A		2004	0715		ZA :	2003-	5437			2	0030	715
ZA 2003005437 US 20040087602																	
ORITY	RITY APPLN. INFO.:									EP :	2001-	1009	68		A 2	0010	117
								wo :	2002-	EP16	3	1	W 2	0020	110		

IT Drug delivery systems

(hydrogels; stabilized brivudine topical formulations containing oxide pigments)

56-81-5, Glycerol, biological studies 57-11-4, Stearic acid, biological TТ studies 57-55-6, Propylene glycol, biological studies 77-92-9, Citric acid, biological studies 99-76-3, Methyl 4-hydroxybenzoate 110-27-0, Isopropyl myristate 121-79-9, Propyl gallate 557-04-0 557-05-1, Zinc stearate 1309-37-1, Iron oxide red, biological studies 1314-13-2 , Zinc oxide (ZnO), biological studies 1338-43-8, Sorbitan monooleate 1347-28-1, Aluminum oxide, biological studies 1345-25-1, Iron oxide, biological studies 7631-86-9, Silica, biological studies 8050-81-5, Simethicone 9004-62-0, Hydroxyethyl cellulose 9004-99-3,

Polyethylene glycol monostearate 9016-00-6, Polydimethylsiloxane 12227-89-3, Iron oxide black 13463-67-7, Titanium oxide, biological studies 26266-58-0, Sorbitan trioleate 31566-31-1, Glyceryl monostearate 31900-57-9, Polydimethylsiloxane 36653-82-4, Cetyl alcohol 51274-00-1, Iron oxide yellow 69304-47-8, Brivudine 442526-40-1

RL: THU (Therapeutic use): BIOL (Biological study): USES (Uses) (stabilized brivudine topical formulations containing oxide pigments)

L16 ANSWER 34 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2002:534115 CAPLUS Full-text

Patent

DOCUMENT NUMBER: 137:63947

TITLE: Method for preparing ultraviolet-resistant plastic

masterbatch

INVENTOR(S): Wang, Xu; Huang, Rui; Jin, Chunhong; Chen, Haitao;

Fan, Youshui

PATENT ASSIGNEE(S): Zhejiang Polytechnical Univ., Peop. Rep. China;

Sichuan University; Ningbo Xingao Co., Ltd. SOURCE: Faming Zhuanli Shenging Gongkai Shuomingshu, 4 pp.

CODEN: CNXXEV

DOCUMENT TYPE:

LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1307072	A	20010808	CN 2000-112645	20000121
CN 1098300	В	20030108		

PRIORITY APPLN. INFO.:

CN 2000-112645 20000121

The UV-resistant plastic masterbatch is prepd. by mixing 5-30 parts surface treated inorg. UV absorbents (CaCO3, SiO2, ZnO or TiO2 with an average particle diameter of 20-150 nm, high-speed mixing for 10-60 min at 100-200 ℃ with a dispersing agent such as titanate, aluminate at a ratio of 100:0.01-0.05) with 95-70 parts carrier resin (such as polyethylene wax, polypropylene) at 150-190 °C for 15-25 min, then extruding with a twin screw extruder.

471-34-1, Calcium carbonate, uses 1314-13-2, Zinc oxide, uses 7631-86-9, Silica, uses 13463-67-7, Titanium dioxide, uses RL: TEM (Technical or engineered material use); USES (Uses) (nanoparticle; UV-resistant plastic masterbatch)

L16 ANSWER 35 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2002:504577 CAPLUS Full-text

137:68236 DOCUMENT NUMBER:

TITLE: Absorbent articles with simplified emollient

compositions having good stability

INVENTOR(S): Kruchoski, Benjamin Joseph; Kottek, Michael B.; Krzysik, Duane Gerard; Cunningham, Corey Thomas;

Orchard, Lewis Preole, IV

PATENT ASSIGNEE(S): Kimberly-Clark Worldwide, Inc., USA

PCT Int. Appl., 43 pp. SOURCE:

CODEN: PIXXD2 DOCUMENT TYPE: Patent

LANGUAGE: English FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002051363	A2	20020704	WO 2001-US50111	20011221

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WO 2002051363
                        A3
                             20030206
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
            PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
            UA, UG, UZ, VN, YU, ZA, ZM, ZW
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
            CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
            BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG
                        A1 20020912 US 2000-746880 20001222
    US 20020128615
                             20020708
                                         AU 2002-232784
                                                               20011221
    AU 2002232784
                        A1
    MX 2003PA05467
                       Α
                              20030925
                                         MX 2003-PA5467
                                                                20030618
                                          US 2000-746880
                                                            A 20001222
PRIORITY APPLN. INFO.:
                                          WO 2001-US50111
                                                             W 20011221
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- AB The present invention relates to absorbent articles including skin care compns. The skin care compns. of the invention are stable on the bodyside liners of absorbent articles despite not containing an immobilizing agent. Surprisingly, the skin care compns. of the invention even demonstrate less migration away from the bodyside liner than do other compns. that contain so-called "immobilizing agents". The compns of the invention possess phys. properties, such as m.ps., viscosities and hardnesses, comparable to compns. containing immobilizing agents, making them suitable for use on absorbent articles. For example, a composition containing 79% white petrolatum and 21% Elvax 220 _resin, when coated on the liner of a disposable diaper, showed a percent loss, an indicative of the Z-direction migration of the composition, of 3.3%.
- IT Medical goods

(<u>absorbents</u>; absorbent articles with simplified emollient compns. having good stability)

IT Absorbents

(medical; absorbent articles with simplified emollient compns. having good stability)

50-14-6, Ergocalciferol 56-81-5, Glycerin, biological studies ΙT 57-10-3, Palmitic Acid, biological studies 57-11-4, Stearic Acid, biological studies 57-87-4, Ergosterol 57-88-5, Cholesterol, biological studies 57-88-5D, Cholesterol, C10-30 alkyl esters 60-33-3, Linoleic Acid, biological studies 67-97-0, Cholecalciferol 79-41-4D, Methacrylic acid, esters, polymers 79-62-9, Dihydrolanosterol 79-63-0, Lanosterol 79-63-0D, Lanosterol, C10-30 alkyl esters 80-97-7, Dihydrocholesterol 83-48-7, Stigmasterol 97-59-6, Allantoin 97-59-6D, Allantoin, derivs. 112-53-8, Lauryl Alcohol 112-72-1, Myristyl Alcohol 112-92-5, Stearyl Alcohol 143-07-7, Lauric Acid, biological studies 434-16-2, 7-Dehydrocholesterol 557-34-6, Zinc acetate 661-19-8, Behenyl Alcohol 1314-13-2, Zinc oxide, biological studies 1327-43-1, Magnesium aluminum silicate 3486-35-9, Zinc carbonate 7631-86-9, Silica, biological studies 7631-86-9D, Silica, silylates 8011-96-9, Calamine 9002-88-4, Polyethylene 9003-53-6D, Polystyrene, copolymers 9004-62-0D, Hydroxyethyl cellulose, alkyl derivs. 9005-25-8D, Starch, quaternized 9006-65-9, Dimethicone 14807-96-6, Talc, biological 24937-78-8, Elvax 220 35602-69-8, Cholesteryl stearate 83615-24-1, Cholesteryl isostearate 158567-65-8 160525-18-8, Cholesteryl hydroxystearate 418754-56-0 RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(absorbent articles with simplified emollient compns. having good stability)

DOCUMENT NUMBER: 137:40958

TITLE: Nanosensors

INVENTOR(S): Lieber, Charles M.; Park, Hongkun; Wei, Quinqiao; Cui,

Yi; Liang, Wenjie
PATENT ASSIGNEE(S): President and Fellows of Harvard College, USA

SOURCE: PCT Int. Appl., 65 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.				KIN		DATE				ICAT				DATE				
		2002				A2		2002									20011	
W	ŧΟ	2002	0487	01		A3		2003										
W	VO.	2002	0487	01		A9		2003	0918									
		W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN
								DK,										
								IN,										
								MD,										
								SE,										
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		RW:						MZ,		SL.	SZ.	TZ.	UG.	ZM.	ZW.	AM.	AZ.	BY
								TM,										
								NL,										
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C	'n	1996		021	,	A		2007				006-	1013	9984		2	20010	822
		2430				A1		2002				001-					20011	
		2002		46		A		2002									20011	
		1342				A2		2003			EP 2	002- 001-	9901	81			20011	
_	-	R:		BE.	CH.			ES,							NT.			
								RO,					,	20,	,	02,	110,	
.1	TP	2004			,	Т,		2004				002-	5499	5.8		- 2	20011	211
		1736		-		A2		2006				006-					20011	
_		R:		BE.	CH.			DK,							TT.			
		14.						BA,				OD,	OI,	111,	11,	шт,	шо,	110
20	TIZ	2002		26	02,	A1	,	2003				002-	3244	26			20020	520
		2002						2007	0706			002	2211				.0020	J = 0
		2004		66		т		2007 2004 2007 2007 2007 2007 2008	1118		TP 2	003-	5113	16		-	20020	520
		2007		003		7.1		2007	1110			006-					20061	
		2007		023		7.1		2007	0200			007-					20070	
		2007		126		7.1		2007	1101			007-					20070	
		2007		10		7.1		2007	0013			007-					20070	
		2008		U.3		7		2007	0110			007-					20071	
		APP		TNEO				2000	0110			000-					20001	
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A3 20020520 AU 2002-324426 WO 2002-US16133 W 20020520 KR 2003-707723 A3 20030610 US 2005-82372 A1 20050317 US 2006-543337 A1 20061004

IT Dopants

Field effect transistors

Films

Glass substrates

Hydrogels

Linking agents

Polymer chains

Quantum dot devices Ouantum wire devices

Sensors

p-n Semiconductor junctions

(design and operation of nanowire based nanosensors for chemical and biol. anal.)

409-21-2, Silicon carbide (SiC), analysis 1303-00-0, Gallium arsenide (GaAs), analysis 1303-11-3, Indium arsenide (InAs), analysis

1306-24-7, Cadmium selenide (CdSe), analysis 1314-13-2, Zinc oxide (ZnO), analysis 1315-09-9, Zinc selenide (ZnSe) 1315-11-3, Zinc

telluride (ZnTe) 7440-21-3, Silicon, analysis 7631-86-9,

Silicon dioxide, analysis 12063-98-8, Gallium phosphide (GaP), analysis

arsenide (AlAs) 24304-00-5, Aluminum nitride (AlN) 25617-97-4, Gallium nitride (GaN) 25617-98-5, Indium nitride (InN)

RL: ARU (Analytical role, unclassified); DEV (Device component use); ANST (Analytical study); USES (Uses)

(design and operation of nanowire based nanosensors for chemical and biol. anal.)

L16 ANSWER 37 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2001:435494 CAPLUS Full-text

Patent

DOCUMENT NUMBER: 135:37229

TITLE:

Polvolefin-based degradable disposable diaper INVENTOR(S): Guevara, Cesar Montemayor; Kat, Oscar J.; Richer,

Carlos E.; Cermak, Brian E.; Gho, Joseph G.; Wiles, David M.

PATENT ASSIGNEE(S): Mex.

SOURCE: U.S. Pat. Appl. Publ., 12 pp., Cont.-in-part of U.S.

> Ser. No. 658,921. CODEN: USXXCO

DOCUMENT TYPE:

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

	PATENT NO.					KIND DATE			APPLICATION NO.						DATE			
US 2001 WO 2001	0398	07		A1 A2		2001 2001	0607			000-				_	0001			
WO 2001	0398	07		A3		2001	1213											
W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,		
	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FΙ,	GB,	GD,	GE,	GH,	GM,	HR,		
	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,		
	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	RO,	RU,		
	SD,	SE,	SG															
RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,		

DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

A5 20010612

AU 2001020652 PRIORITY APPLN. INFO.: AU 2001-20652 20001206 MX 1999-48508 A 19991206 US 2000-658921 A2 20000911 US 2000-730050 A 20001205 WO 2000-US33107 W 20001206

AΒ A degradable disposable diaper includes one or more sheets made of polyolefin with the polyolefin including a prodegradant causing the sheet to degrade. The prodegradant includes a metal compound such as a metal selected from the group consisting of cobalt, cerium, and iron. The preferred metal compound is a metal carboxylate. The polyolefin is preferably polyethylene or polypropylene. A secondary polyolefin may be used to aid the incorporation of the prodegradant into the primary polyolefin. A filler may also be used with the polyolefin and prodegradant. The filler preferably has a particle size <150 mesh and is free of water. The filler is preferably calcium carbonate having a 1 to 10 μ particle size. The sheet contains 0.001-15% prodegradant and most preferably 0.01-3% prodegradant. The sheet also includes up to about 15% filler. The diaper also includes a degradable absorbent core. Thus, diapers were used in which the polyethylene film contained 98.5% polyethylene, 1.44% calcium carbonate, and 0.06% cobalt stearate and the polypropylene nonwoven fabric contained 98.5% polypropylene, 0.75% polyethylene resin, 0.7275% calcium carbonate, and 0.0225% cobalt stearate.

IT <u>Absorbents</u> Diapers

Elongation, mechanical

Nonwoven fabrics

Particle size distribution

Tensile strength

(polyolefin-based degradable disposable diaper)

IT 471—34-1, Calcium carbonate, biological studies 1309-42-8, Magnesium hydroxide 1314-13-2, Zinc oxide (ZnO), biological studies 7439-89-6D, Iron, compds. 7440-45-1D, Cerium, compds. 7440-48-4D, Cobalt, compds. 7623-86-9, Silica, biological studies 9002-88-4, Polyethylene 9003-07-0, Polypropylene 9003-29-6, Polybutylene 9004-34-6, Cellulose, biological studies 9004-34-6D, Cellulose, derivs., biological studies 13463-67-7, Titanium oxide, biological studies 1358-84-0, Cobalt stearate 14807-96-6, Talc,

biological studies 13308-04-0, CODAIL Stealace 14000-150-6, Idl.C. biological studies 14912-91-5, Cesium stearate 21645-512-2, Aluminum hydroxide (Al(OH)3), biological studies RL: DEV (Device comognent use): THU (Therapeutic use): BIOL (Biological

study); USES (Uses) (polyolefin-based degradable disposable diaper)

L16 ANSWER 38 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2001:217712 CAPLUS Full-text

DOCUMENT NUMBER: 134:256614

TITLE: Environmental-friendly sebum absorbent film containing

inorganic fillers and water-absorbing polymers

INVENTOR(S): Kuramoto, Mitsuru; Matsuda, Kosuke
PATENT ASSIGNEE(S): Cosmetics Roland K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

LANGUAGE: Japane FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

JP 2001078914 A 20010327 JP 1999-263072 19990917 PRIORITY APPLN. INFO:: JP 1999-263072 19990917

AB The film is manufd. by mixing polyolefin <u>resing</u> or cryst. <u>resing</u>, vinyl acetate, biodegradable plastics, inorg. fillers, water-absorbing polymers, and pigments and shaping the mixture Addition of inorg. fillers increases sebumabsorbing property and water-absorbing polymer absorbs sweat. The biodegradable plastics may be mainly comprise vegetable starches.

IT Sweat

(<u>absorbents</u>; environmental-friendly sebum absorbent film containing polyolefin <u>resins</u> or crystalline <u>resins</u>, vinyl acetate, biodegradable plastics, inorg. fillers, water-absorbing polymers, and pigments)

IT Pigments, nonbiological

(azo; environmental-friendly sebum absorbent film containing polyolefin resing or crystalline resins, vinyl acetate, biodegradable plastics, inorg. fillers, water-absorbing polymers, and pigments)

IT Polymers, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(biodegradable; environmental-friendly sebum absorbent film containing polyolefin <u>resins</u> or crystalline <u>resins</u>, vinyl acetate, biodegradable plastics, inorg. fillers, water-absorbing polymers, and pioments)

IT Pigments, nonbiological

(cyan; environmental-friendly sebum absorbent film containing polyolefin resins or crystalline <u>resins</u>, vinyl acetate, biodegradable plastics, inorq, fillers, water-absorbing polymers, and pigments)

T <u>Absorbents</u> Sebum

Cenvironmental-friendly sebum absorbent film containing polyolefin regins or crystalline regins, vinyl acetate, biodegradable plastics, inorg. fillers, water-absorbing polymers, and pigments)

IT Carbon black, biological studies

Polyesters, biological studies

Polyoxyalkylenes, biological studies

RL: BUÜ (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(environmental-friendly sebum absorbent film containing polyolefin resins or crystalline resins, vinyl acetate, biodegradable plastics, inorg, fillers, water-absorbing polymers, and pigments)

IT Kaolin, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(filler; environmental-friendly sebum absorbent film containing polyolefin \underline{resins} or crystalline \underline{resins} , vinyl acetate, biodegradable

plastics, inorg. fillers, water-absorbing polymers, and pigments)

T Polysiloxanes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(fillers; environmental-friendly sebum absorbent film containing polyolefin reging or crystalline resing, vinyl acetate, biodegradable plastics, inorg. fillers, water-absorbing polymers, and pigments)

108-05-4, Vinyl acetate, biological studies 147-14-8, Phthalocyanine blue 1309-37-1, Red iron oxide, biological studies 1314-23-4, Zirconium oxide, biological studies 1328-53-6, Phthalocyanine green 7440-47-3D, Chromium, hydrate, biological studies 9002-88-4, Polyethylene 9003-07-0, Polypropylene 10101-66-3, Manganese violet 1118-57-3, Chromium oxide 11129-18-3, Cerium oxide 12227-89-3, Black iron oxide 12240-15-2, Iron blue 13463-67-7, Titania, biological studies 25038-99-9, Polyethylene terephthalate, biological studies

25322-68-3, Polyethylene glycol 51274-00-1, Yellow iron oxide 52357-70-7, Brown iron oxide 57455-37-5, Ultramarine blue RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(environmental-friendly sebum absorbent film containing polyolefin resins or crystalline resins, vinyl acetate, biodegradable

plastics, inorg. fillers, water-absorbing polymers, and pigments) 471-34-1, Calcium carbonate, biological studies 1309-42-8, Magnesium

hydroxide 1314-13-2. Zinc oxide, biological studies 1344-28-1, Alumina, biological studies 7631-36-9,

Silica, biological studies 7727-43-7, Barium sulfate 14807-96-6, Talc, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(filler; environmental-friendly sebum absorbent film containing polyolefin resins or crystalline resins, vinyl acetate, biodegradable plastics, inorg. fillers, water-absorbing polymers, and pigments)

7429-90-5, Aluminum, biological studies 7440-22-4, Silver, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses) (powder; environmental-friendly sebum absorbent film containing polyolefin

resins or crystalline resins, vinyl acetate, biodegradable plastics, inorg. fillers, water-absorbing polymers, and pigments)

9003-01-4, Poly(acrylic acid)

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(water absorbent; environmental-friendly sebum absorbent film containing polyolefin resins or crystalline resins, vinyl acetate, biodegradable plastics, inorg. fillers, water-absorbing polymers, and pigments)

L16 ANSWER 39 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN 2000:828809 CAPLUS Full-text

ACCESSION NUMBER: DOCUMENT NUMBER: 134:19059

TITLE: Manufacture of silica gel fine particles and particles

containing metal compounds INVENTOR(S):

Terase, Kunihiko; Inoue, Maki; Ono, Eiichi PATENT ASSIGNEE(S): Dokai Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.

CODEN: JKXXAF DOCUMENT TYPE: Patent LANGUAGE: Japanese FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	ENT NO.	KIND	DATE	APP	LICATION NO.	DATE
JP	2000327320	A	20001128	JP	1999-140959	19990521
JP	4059365	B2	20080312			
IORITY	APPLN. INFO.:			JP	1999-140959	19990521

PRI Hydrogels

(manufacture of silica gel fine particles and particles containing metal compds.)

7631-86-9P, Silica, preparation

RL: IMF (Industrial manufacture); PREP (Preparation)

(hydrogel; manufacture of silica gel fine particles and particles containing

metal compds.)

1314-13-2P, Zinc oxide, preparation 1314-23-4P, Zirconia,

preparation 1332-37-2P, Iron oxide, preparation 11129-18-3P, Cerium

oxide 13463-67-7P, Titania, preparation

RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PREP (Preparation); PROC (Process)

(manufacture of silica gel fine particles and particles containing metal compds.)

L16 ANSWER 40 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2000:624624 CAPLUS Full-text

DOCUMENT NUMBER: 133:212069

TITLE: Manufacture of composite thermal insulation panels

from foamed mineral building materials INVENTOR(S): Franke, Matthias; Niedner, Peter; Choyna, Karin

PATENT ASSIGNEE(S): Germany

SOURCE: Eur. Pat. Appl., 27 pp.

CODEN: EPXXDW DOCUMENT TYPE: Patent

LANGUAGE: German FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1033354	A1	20000906	EP 2000-103969	20000225
EP 1033354	B1	20040121		
R: AT, BE, CH,	DE, DE	ES, FR, GB	GR, IT, LI, LU, NL,	SE, MC, PT,
IE, SI, LT,	LV, FI	, RO		
DE 19909077	A1	20000914	DE 1999-19909077	19990302
AT 258150	T	20040215	AT 2000-103969	20000225
JP 2000302565	A	20001031	JP 2000-57536	20000302
PRIORITY APPLN. INFO.:			DE 1999-19909077 F	19990302
REFERENCE COUNT:	8	THERE ARE 8 0	CITED REFERENCES AVAIL	ABLE FOR THIS
		RECORD. ALL 0	CITATIONS AVAILABLE IN	THE RE FORMAT
AB Composite materials	hand	on alkali oi	licate and/or ammonia	m oilioato mata

AR Composite materials based on alkali silicate and/or ammonium silicate matrix (with the ratio of SiO2 content to alkali/NH4 content ≥2:1) are (1) dried by microwaves for ≤ 10 min at 80-900 to obtain predetd. content of water 10-15 weight%, (2) heated to 100-7000, preferably to 150-2500, to form open and/or closed porous structure, and (3) granulated. The silicate matrix materials are expanded for 10-20 times after drying and heating. The matrix contains also stabilizing components such as Ca(OH)2, Zn(OH)2, Mg(OH)2, NH4OH, or oxides, or salts of Ca, Mq, Zn, or NH4, or silica gel, clay gel, or mixts. thereof. Bentonite, gypsum, chalk, lime, stone or glass flour, cement, alumina, graphite, wood dust, biomass, synthetic or gum powders are used as fillers to improve strength and chemical stability. Glass, ceramic, mineral, carbon, biol., or synthetic fibers ≤10 mm length can also be used as fillers as well as industrial waste fibers especially textile, carpets, wood, cellulose fibers , or other natural fibers. The material mixts. are molded as panels and covered with fabrics, foils, chips, fibers, and/or fine powders, or such absorbents as felt, fleece mats, frits, or rough and fine ceramic powders for surface strengthening. Gums and Mucilages

(powders; manufacture of panels from foamed building materials with silicate

matrix)

Absorbents

Felts

Foils

Frits

(silicate matrix covered with; manufacture of panels from foamed building

materials with silicate matrix)

T 1344-28-1, Alumina, uses 7782-42-5, Graphite, uses 13397-24-5, Gypsum, uses

RL: MOA (Modifier or additive use); USES (Uses)

(filler; manufacture of panels from foamed building materials with silicate matrix)

IT 1314-13-2, Zinc oxide (ZnO), uses

RL: MOA (Modifier or additive use); USES (Uses)

(stabilizing component; manufacture of panels from foamed building materials

with silicate matrix)

L16 ANSWER 41 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2000:396564 CAPLUS Full-text

DOCUMENT NUMBER: 133:34326

TITLE: Production of aqueous gels for body deodorants

INVENTOR(S): Kropf, Christian; Foerster, Thomas; Heller, Melita;

Claas, Marcus; Banowski, Bernhard

PATENT ASSIGNEE(S): Henkel K.-G.a.A., Germany SOURCE: Ger. Offen., 6 pp.

CODEN: GWXXBX
DOCUMENT TYPE: Patent

LANGUAGE: German FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.					KIND DATE				APPLICATION NO.						DATE		
						-									_		
DE	1985	7235			A1		2000	0615		DE	1998-	1985	7235		1	9981	211
WO	2000	0354	11		A2		2000	0622		WO	1999-	EP93	79		1	9991	201
WO	2000	0354	11		A3		2002	0214									
	W:	JP,	US														
	RW:	AT,	BE,	CH,	CY,	DE,	DK,	ES,	FI,	FR	, GB,	GR,	IE,	IT,	LU,	MC,	NL,
		PT,	SE														
EP	1143	918			A2		2001	1017		ΕP	1999-	9633	60		1	9991	201
EP	1143	918			A3		2002	0508									
EP	1143	918			B1		2003	0820									
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT,	LI,	LU,	NL,	SE,	MC,	PT,
		IE,	FI														
AT	2474	53			T		2003	0915		ΑT	1999-	9633	60		1	9991	201
PRIORIT	Y APP	LN.	INFO	. :						DE	1998-	1985	7235		A 1	9981	211
										WO	1999-	EP93	79		W 1	9991	201

IT Antiperspirants

Cosmetics Deodorants (personal)

Dedudiants (personar)

Hvarogeis

(production of aqueous gels for body deodorants)

IT 50-21-5, Lactic acid, biological studies 77-92-9, Citric acid, biological studies 87-69-4, Tartaric acid, biological studies 1305-62-0, Calcium hydroxide, biological studies 1305-78-8, Calcium oxide, biological studies 1309-42-8, Magnesium hydroxide 1309-48-4, Magnesium oxide, biological studies 1314-23-4, Zirconium oxide, biological studies 1314-23-4, Zirconium oxide, biological studies 1318-23-6, Boehmite (Al(OH)O) 134+28-1, Aluminum oxide, biological studies 6915-15-7, Malic acid 12164-98-6, Zirconium oxide hydrate 1217-68-3, Portlandite (Ca(OH)2) 12263-26-2, Magnesium oxide, biological studies 1447-63-9 20427-58-1, Zinc hydroxide 21645-51-2, Aluminum oxide hydrate 21645-51-2, Aluminum oxide hydrate 5504-38-1, Zinc oxide hydrate 5724-38-1, Zinc oxide hydrate 5724-38-1, Zinc oxide hydrate 5724-38-1, Zinc hydroxide 21645-51-2, Aluminum oxide hydrate 5724-38-1, Zinc oxide hydrate 5724-38-1, Zinc oxide hydrate 5724-38-1, Zinc oxide hydrate 5724-38-1, Zinc oxide hydrate 5724-51-2, Itanium oxide

hydrate

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(production of aqueous gels for body deodorants)

L16 ANSWER 42 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2000:210034 CAPLUS Full-text

DOCUMENT NUMBER: 132:248234

TITLE: Inventory control using semiconductor nanocrystal

ensembles for luminescent tagging INVENTOR(S): Bawendi, Moungi G.; Jensen, Klavs F.

PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA

SOURCE: PCT Int. Appl., 43 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: 9

PATENT INFORMATION:

PA						KIND DATE			APPLICATION NO.					NO.	DATE			
WO	2000	0171	03				2000	0330		WO	19	999-1	US21	373			19990	917
	2000																	
	W:	AE,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BO	Э,	BR,	BY,	CA,	CH,	CN	CU,	CZ,
		DE,	DK,	EE,	ES,	FI,	GB,	GD,	GE,	GE	Ι,	GM,	HR,	HU,	ID,	IL	IN,	IS,
		JP,	KE,	KG,	KΡ,	KR,	KZ,	LC,	LK,	LE	٦,	LS,	LT,	LU,	LV,	MD	MG,	MK,
		MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU	J,	SD,	SE,	SG,	SI,	SK	SL,	TJ,
		TM,	TR,	TT,	UA,	UG,	US,	UZ,	VN,	ΥU	J,	ZA,	ZW					
	RW:	GH,	GM,	KE,	LS,	MW,	SD,	SL,	SZ,	T2	Ζ,	UG,	ZW,	AT,	BE,	CH	CY,	DE,
		DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU	J,	MC,	NL,	PT,	SE,	BF	BJ,	CF,
							GW,											
	6617																19980	
	2344																	
EP	1113																	
	R:			CH,	DE,	DK,	ES,	FR,	GB,	GE	₹,	ΙT,	LI,	LU,	NL,	SE	MC,	PT,
		IE,																
	2003																19990	
	2002									US	20	002-	1572	32			20020	530
	6774				B2		2004						0.5.0.0	0.17				
	2004				AI		2004	1104						07			20040 19980	
PRIORIT	Y APP	LW.	TMEO	. :														
														58			19980	
														47P			19980	
														63 54			19980 19980	
														28			19980	
														28 32			19990	
														32 36			19990 19990	
														373			19990	
																	20020	
										00	21	002-	1012	-	,		-0020	550

IT <u>Hydrogeis</u>

Latex

(support; semiconductor nanocrystal ensembles for luminescent tagging and their use)

IT 1303-00-0, Gallium arsenide (GaAs), uses 1303-11-3, Indium arsenide (InAs), uses 1306-19-0, Cadmium oxide (CdO), uses 1306-23-6, Cadmium sulfide (CdS), uses 1306-24-7, Cadmium selenide (CdSe), uses 1306-25-8, Cadmium telluride (CdTe), uses 1312-41-0 1313-04-8, Magnesium selenide (MgSe) $\frac{1314-13-2}{2}$, Zinc oxide (ZnO), uses 1314-87-0, Lead sulfide (PbS) 1314-98-3, Zinc sulfide (ZnS), uses

1315-10-9-9, Zinc selenide (ZnSe) 1315-11-3, Zinc telluride (ZnTe) 1344-48-5, Mercury sulfide (HgS) 7440-21-3, Silicon, uses 7440-56-4, Germanium, uses 12032-36-9, Magnesium sulfide (MgS) 12032-44-9, Magnesium telluride (MgTe) 12063-98-8, Gallium phosphide (GaP), uses 12064-03-8 12068-90-5, Mercury telluride (HgTe) 12069-90-0-0, Lead selenide (PbSe) 12251-90-0, Aluminum sulfide (AlS) 20601-83-6, Mercury selenide (HgSe) 20859-73-8, Aluminum phosphide (AlP) 21908-53-2, Mercury oxide (HgO) 22398-60-7, Indium phosphide (InP), uses 22831-42-1, Aluminum arsenide (AlAs) 24304-00-5, Aluminum nitride (AlN) 25152-52-7 25617-97-4, Gallium nitride (GaN) 25617-98-5, Indium nitride (InN)

RL: DEV (Device component use); USES (Uses) (semiconductor nanocrystal ensembles for luminescent tagging and their

IT 2680-03-7 7631-86-2, Silica, uses 9002-88-4, Polyethylene 9003-05-8, Polyacrylamide 9003-53-6, Polystyrene 9003-70-7, Divinylbenzene-styrene copolymer 9004-34-6, Cellulose, uses 9012-36-6, Agarose 82370-43-2, Polyimidazole 89162-59-4 96638-49-2, Polybenylene vinylene

RL: DEV (Device component use); USES (Uses)

(support; semiconductor nanocrystal ensembles for luminescent tagging and their use)

L16 ANSWER 43 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2000:15049 CAPLUS Full-text

DOCUMENT NUMBER: 132:83723

TITLE: Diaper including feces modification agent INVENTOR(S): Roe, Donald Carroll; Ahr, Nicholas Albert;

Bewick-Sonntag, Christopher Phillip; Schmidt, Mattias;

Goldman, Stephen Allen; Christison, John

Procter and Gamble Company, USA

SOURCE: PCT Int. Appl., 119 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 17

PATENT INFORMATION:

PATENT ASSIGNEE(S):

	ENT :						DATE				ICAT					ATE		
	2000																	
											BR,							
		DE,	DK,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	
		JP,	KE,	KG,	KP,	KR,	KΖ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	
		MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	
		TM,	TR,	TT,	UA,	UG,	UZ,	VN,	YU,	ZA,	ZW							
	RW:	GH,	GM,	KE,	LS,	MW,	SD,	SL,	SZ,	UG,	ZW,	AT,	BE,	CH,	CY,	DE,	DK,	
		ES,	FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	BJ,	CF,	CG,	
		CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG						
US	6149	636			A		2000	1121		US 1	998-	1075	61		1	9980	629	
US	6186	991			B1		2001	0213		US 1	.998-	1062	25		1	9980	629	
CA	2336	020			A1		2000	0106		CA 1	999-	2336	020		1	9990	629	
AU	9947	252			A		2000	0117		AU 1	999-	4725	2		1	9990	629	
AU	9948	420			A		2000	0117		AU 1	999-	4842	0		1	9990	629	
EP	1091	687			A1		2001	0418		EP 1	999-	9308	33		1	9990	629	
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	PT,	IE,	FΙ
EP	1091	688			A1		2001	0418		EP 1	.999-	9320	10		1	9990	629	
EP	1091						2006											
	R:	AT,		CH,	CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	IE,	IT,	LI,	LU,	NL,	

	1091772		A1		EP 1999-932023 19990629	
EP	1091772		В1			
		CH,			GB, GR, IT, LI, LU, NL, SE, PT, IE, F	Ι
	200100301		T2			
	6342037		B1	20020129		
	6384296		B1	20020507		
	2002519108		T	20020702		
	2002519110		T	20020702		
	2002519118		T	20020702		
AT	255424		T	20031215	AT 1999-932023 19990629	
EP	1091718		В1	20070905		
	R: AT, BE,	CH,	CY,	DE, DK, ES,	FI, FR, GB, GR, IE, IT, LI, LU, NL,	
	PT, SE					
TW	416843		В	20010101	TW 1999-88110994 19991201	
TW	482662		В	20020411		
TW	519487		В	20030201	TW 1999-88110999 19991201	
ZA	2000007366		A	20011211	ZA 2000-7366 20001211	
ZA	2000007464		A	20010906	ZA 2000-7464 20001213	
ZA	2000007463		A	20020313	ZA 2000-7463 20001213	
MX	2000PA12986		A	20010507	MX 2000-PA12986 20001220	
MX	2000PA12976		A	20011011	MX 2000-PA12976 20001220	
MX	2000PA12982		A	20011011	MX 2000-PA12982 20001220	
MX	2000PA12987		A	20011011	MX 2000-PA12987 20001220	
MX	2000PA12992		A	20011011	MX 2000-PA12992 20001220	
MX	2000PA12993		A	20011011	MX 2000-PA12993 20001220	
PRIORITY	APPLN. INFO	. :			US 1998-106225 A 19980629	
					US 1998-107561 A 19980629	
					US 1998-90993P P 19980629	
					US 1998-91076P P 19980629	
					US 1999-131049P P 19990426	
					US 1999-342784 A 19990629	
					WO 1999-US14635 W 19990629	
					WO 1999-US14636 W 19990629	
					WO 1999-US14637 W 19990629	
					WO 1999-US14663 W 19990629	
					WO 1999-US14664 W 19990629	
					WO 1999-US14665 W 19990629	
					WO 1999-US14794 W 19990629	
					WO 1999-US14885 W 19990629	

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT Medical goods Medical goods

(absorbents; diaper including feces modification agent)

IT Absorbents
Absorbents

(medical; diaper including feces modification agent)

50-01-1, Guanidine hydrochloride 68-11-1, Mercaptoacetic acid, TT biological studies 79-42-5, Thiolactic acid 758-08-7, Thioglycolamide 1302-42-7, Sodium aluminate 1305-62-0, Calcium hydroxide, biological studies 1305-78-8, Calcium oxide, biological studies Magnesium oxide, biological studies 1314-13-2, Zinc oxide, biological studies 1327-41-9, Aluminum chloride hydroxide 1344-28-1, Alumina, biological studies 2836-32-0, Sodium glycolate 7429-90-5D, Aluminum, salts, biological studies 7439-89-6D, Iron, salts, biological studies 7440-23-5D, Sodium, salts, biological studies 7440-66-6D, Zinc, salts, biological studies 7440-70-2D, Calcium, salts, biological studies 7446-70-0, Aluminum chloride, biological studies 7705-08-0, Ferric chloride, biological studies 7720-78-7, Ferrous sulfate 7758-94-3, Ferrous chloride 7772-99-8,

Stannous chloride, biological studies 7803-49-8, Hydroxylamine, biological studies 9002-98-6, Polyethylenimine 9003-01-4, Polyacrylic acid 9003-39-8, Pyp 9004-32-4 9005-32-7, Alqinic acid 9062-04-8, Carbopol 941 10043-01-3, Aluminum sulfate 10043-52-4, Calcium chloride, biological studies 10043-67-1, Aluminum potassium sulfate 11129-60-5, Manganese oxide 11138-66-2, Xanthan gcm 16695-85-3, Lithium aluminum hydride 2250-16-3 68148-42-5, Glycerol monothioglycolate 253789-08-1, Feclone FPS 2 53789-09-2, Feclone FPS 4 253789-10-5, Feclone FPS 6 253789-11-6, Feclone FPS 7RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(diaper including feces modification agent)

L16 ANSWER 44 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1999:779206 CAPLUS Full-text

DOCUMENT NUMBER: 132:13465

TITLE: Method for making spherical adsorbent particles
INVENTOR(S): Derolf, Mahlon Robert; Smiley, Leonard Harris; Witt,
Reinhard Herbert

PATENT ASSIGNEE(S): Bio-Technical Resources, USA

SOURCE: U.S., 13 pp., Cont.-in-part of U.S. Ser. No. 448,165,

abandoned. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2 PATENT INFORMATION:

PATENT NO.	KIND	D3 MD	apprinamental No	D. M. M. M.
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5998329	A	19991207	US 1997-885340	19970630
CA 2192548	A1	19951228	CA 1995-2192548	19950616
CA 2192548	C	19991102		
CN 1155253	A	19970723	CN 1995-193654	19950616
US 6074983	A	20000613	US 1998-204408	19981202
PRIORITY APPLN. INFO.:			US 1994-262115 E	2 19940617
			US 1995-448165 E	2 19950523
			US 1997-885340 A	3 19970630
REFERENCE COUNT:	14	THERE ARE 1	4 CITED REFERENCES AVAI	LABLE FOR THIS
		RECORD. ALL	CITATIONS AVAILABLE IN	THE RE FORMAT

IT Sols

(hydrosols; production of spherical adsorbent particles from hydrogels bonded using hydrosols)

IT Oxides (inorganic), uses

RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)

(hydrosols; production of spherical adsorbent particles from hydrogels bonded using hydrosols)

IT Adsorbents

Hydrogels

Microspheres

(production of spherical adsorbent particles from <u>hydrogets</u> bonded using hydrosols)

IT Silica gel, uses

RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)

(production of spherical adsorbent particles from <u>hydrogels</u> bonded using hydrosols)

IT Particles

(spherical; production of spherical adsorbent particles from

Avaragels bonded using hydrosols)

IT Drying

(spray; production of spherical adsorbent particles from <u>hydrodels</u> bonded using hydrosols)

T 7631-86-9, Silica, uses

RL: NUU (Other use, unclassified); TEM (Technical or engineered material use): USES (Uses)

(<u>hydrogels</u>; hydrosols; production of spherical adsorbent particles from <u>hydrogels</u> bonded using hydrosols)

IT 1309-37-1, Iron oxide, uses 1309-48-4, Magnesium oxide, uses

1309-64-4, Antimony oxide, uses 1314-13-2, Zinc oxide, uses 1314-23-4, Zirconium oxide, uses 1332-29-2, Tin oxide 1344-28-1, Aluminum oxide, uses 13463-67-7, Titanium oxide, uses

RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)

(hydrosols; production of spherical adsorbent particles from hydrogels bonded using hydrosols)

L16 ANSWER 45 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1999:142308 CAPLUS Full-text

DOCUMENT NUMBER: 130:253135

TITLE: Microbicides containing inorganic oxide powders covered with silver composite oxides, their

manufacture, and resin compositions

manuracture, and resum compositions

INVENTOR(S): Nakamura, Hiroshige; Kojima, Kaoru; Saita, Junji;

Takeshima, Eiki

PATENT ASSIGNEE(S): Nisshin Steel Co., Ltd., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese FAMILY ACC. NUM. COUNT: 1

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11060417	A	19990302	JP 1997-231703	19970813
PRIORITY APPLN. INFO.:			JP 1997-231703	19970813

- TI Microbicides containing inorganic oxide powders covered with silver composite oxides, their manufacture, and <u>resin</u> compositions
- AB Microbicides, useful for resing, fibers, coatings, and cosmetics, comprise inorg, oxide powders, which have average particle size \$1 \text{ pm}\$ and are covered with Ag-containing composite oxides. The microbicides are manufactured by covering inorg, oxide fine powders with composite oxides containing Al, \$1, \$Zr, and/or \$Zn, covering the composite oxides with Ag-Zn alloy by sputtering, and diffusing the Ag by heating. The compose contain \$21 \text{ additive chosen from antioxidants, UV absorbents, light stabilizers, and \$ZnO powder. Thus, \$J\$ 740 (propylene polymer) \$97.4, microbicide [TiO2 powder (JR 405) covered with alumina and Ag-Zn (20:80) alloy] 1.0, Irganox B 225 0.2, Tinuvin 326 0.2, \$and \$L5 770 0.2, and \$ZnO fine powder 1.0 part were mixed and made into a plate showing grayish white color and strong bactericidal and fungicidal activity.
- ST microbicide powder silver composite oxide covering; resin microbicide powder silver oxide covering; polypropylene microbicide titania powder silver covering; zinc silver alloy sputtering titania microbicide; coating microbicide oxide powder silver covering; fiber microbicide oxide powder silver covering worder silver covering to sometic microbicide oxide powder silver covering.

IT Antibacterial agents

Antioxidants

Fungicides

Light stabilizers

UV stabilizers

(microbicides containing inorg. oxide powders covered with Ag-containing composite oxides for resins, fibers, coatings and cosmetics)

IT Oxides (inorganic), uses

RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)

(microbicides containing inorg. oxide powders covered with Ag-containing composite oxides for resins, fibers, coatings and cosmetics)

IT <u>1314-13-2</u>, Zinc oxide, uses 1314-23-4, Zirconia, uses

1344-28-1, Alumina, uses 7631-86-9, Silica, uses

13463-67-7, Titania, uses

RL: BUU (Biological use, unclassified); MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); BIOL (Biological study); PROC (Process); USES (Uses)

(microbicides containing inorg. oxide powders covered with Ag-containing composite oxides for resins, fibers, coatings and cosmetics)

IT 3896-11-5, Tinuvin 326 52829-07-9, Sanol LS 770 56378-12-2 89421-57-8, Irganox B 225 101826-60-2 102847-12-1 221359-87-1

89421-5/-8, 1rganox B 225 101826-60-2 10284/-12-1 221359-8/-1

RL: MOA (Modifier or additive use); USES (Uses)

(microbicides containing inorg. oxide powders covered with Ag-containing composite oxides for resing, fibers, coatings and cosmetics)

L16 ANSWER 46 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1999:101317 CAPLUS Full-text

DOCUMENT NUMBER: 130:172773

TITLE: Decorative cosmetic oil-in-water emulsions

INVENTOR(S): De Clermont-Gallerande, Helene; Zastrow, Leonhard;

Marsande, Elisabeth
PATENT ASSIGNEE(S): Lancaster Group G.m.b.H., Germany

SOURCE: Ger. Offen., 6 pp.

CODEN: GWXXBX
DOCUMENT TYPE: Patent

LANGUAGE: German FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	TENT :	NO.			KIN		Ε	API	PLICAT	ION NO	٥.		DATE	
DE	1973	3625			A1		90204	DE	1997-	197336	525		1997072	
CA	2295	533			A1	199	90211	CA	1998-	22955	33		1998072	21
WO	9906	010			A2	199	90211	WO	1998-	DE208	5		1998072	21
WO	9906	010			A3	199	90610							
	W:	CA,	CN,	CZ,	HU,	JP, PL	, SK,	US						
	RW:	ΑT,	BE,	CH,	CY,	DE, DK	, ES,	FI, F	R, GB,	GR,	IE, I	IT, LU	, MC, N	IL,
		PT,	SE											
EP	1001	731			A2	200	00524	EP	1998-	94732	7		1998072	21
EP	1001	731			B1	200	40512							
	R:	DE,	ES,	FR,	GB,	IT, MC								
JP	2001	5114	34		T	200	10814	JP	2000-	50482	7		1998072	21
CN	1119	981			В	200	30903	CN	1998-	807663	1		1998072	21
ES	2221	202			Т3	200	41216	ES	1998-	94732	7		1998072	21
PL	1933	85			B1	200	70228	PL	1983-	3381			1998072	
PRIORITY	Y APP	LN.	INFO	. :				DE	1997-	197336	525	A	1997072	8
								WO	1998-	DE2085	ō	W	1998072	21

IT Hydrogels

(cationic; decorative cosmetic oil-in-water emulsions)

T <u>1317-13-2</u>, Zinc oxide, biological studies 1332-37-2, Iron oxide, biological studies 7631-86-9, Silica, biological studies

9002-84-0, Polytetrafluoroethylene 9002-88-4 9005-25-8, Starch,

biological studies 9011-14-7, Poly(methyl methacrylate) 14807-96-6, Talc, biological studies 57455-37-5, Ultramarine blue RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(powdered; decorative cosmetic oil-in-water emulsions)

L16 ANSWER 47 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1998:535375 CAPLUS Full-text

DOCUMENT NUMBER: 1998:535375 CAPLOS

TITLE: Fabrics or materials with improved odor absorption

properties

INVENTOR(S): Kanetani, Toshiharu; Tahata, Jiro; Hirata, Masayuki

PATENT ASSIGNEE(S): Toray Industries, Inc., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10219569	A	19980818	JP 1997-23724	19970206
JP 3629871	B2	20050316		
PRIORITY APPLN. INFO.:			JP 1997-23724	19970206

AB Odor-absorbing materials are prepd. by coating the surface of base materials with compns. comprising odor absorbing agents and polymer binders and subsequently coating the surface with waterproofing agents. The odor absorbing materials are useful as garments, construction materials, or hydienic materials. A woven polyester fabric was treated with an aqueous composition containing porous SiO2 10, ZnSO4 10, 45% (solids) poly(vinylamine) solution 10, Elastron Wn-11P (polyurethane, solids 25%) 20, and catalyst 0.5 g/L to pickup 65%, dried, heat-treated 1 min at 170°, treated with a composition containing 4.7% (on fiber, as solids) CH2:CHCO2CH2CH2NC3H7SO2C8H17 and 0.9% (as solids) trimethylolmelamine resin, dried, and heat-treated 60 s at 180° to give a fabric exhibiting good cigarette odor absorption properties and good retention of odor absorption properties on washing the fabric for 5 cycles.

IT Odor and Odorous substances

(<u>absorbents</u>; fabrics or materials coated with polymer binders containing deodorants and waterproofing agents for improved odor absorption properties)

Acrylic polymers, uses

Acrylic poly
Aminoplasts

Epoxy resins, uses

Plastic foams

Polymers, uses

Polyurethanes, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(binders; fabrics or materials coated with polymer binders containing deodorants and waterproofing agents for improved odor absorption properties)

IT Absorbents

(for odor; fabrics or materials coated with polymer binders containing deodorants and waterproofing agents for improved odor absorption properties)

IT 1071-93-8 1214-13-2, Zinc oxide, uses 7631-86-9,

Silica, uses 7733-02-0, Zinc sulfate 13463-67-7, Titanium dioxide, uses 26336-38-9, Poly(vinylamine)

RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses) (odor absorbent; fabrics or materials coated with polymer binders

containing deodorants and waterproofing agents for improved odor absorption properties)

L16 ANSWER 48 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1998:175488 CAPLUS Full-text

DOCUMENT NUMBER: 128:245119

TITLE:

Polyester fiber materials with washfast deodoring, flame-retardant and soiling-resistant properties and their manufacture

Hirata, Masayuki; Kanetani, Toshiharu; Tabata, Jiro; INVENTOR(S):

Saito, Koichi

PATENT ASSIGNEE(S): Toray Industries, Inc., Japan SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICA	TION NO.		DATE		
							-	
JP 10072782	A	19980317	JP 1996	-221196		1996082	2	
JP 3651132	B2	20050525						
US 6077794	A	20000620	US 1997	-871527		19970609	9	
TW 438923	В	20010607	TW 1997	-86108227		19970623	1	
PRIORITY APPLN. INFO.:			JP 1996	-149166	A	1996061	1	
			JP 1996	-221196	A	1996082	2	
			JP 1997	-30106	A	1997021	4	
			JP 1997	-32239	A	1997021	7	
AB The materials are	imprean	ated with a	compn. co	onta, block	CODO	olvmers (A) c	٥

The materials are impregnated with a compn. contq. block copolymers (A) of polyalkylene glycols, aromatic dicarboxylic acids and alkylene glycols, inorg. absorbents, polyvinylamines and synthetic resin binders and contain halogenated cycloalkane compds. Thus, impregnating a dyed polyester fabric containing 1,2,5,6,9,10-hexabromocyclododecane in a bath containing TO-SR-1 (A) 20, porous silica microparticles 10, Zn sulfate 10, 45%-solids polyvinylamine 10, Elastron W-11P (25%-solids) 20, Elastron Catalyst 64 0.5 and NaHCO3 0.05 parts, squeezing to pickup weight of 65%, drying 3 min at 120° and heating on a pin-tenter at 170° for 1 min gave a fabric with good deodorizing, flame-retardant and soiling-resistant properties.

1314-13-2, Zinc oxide, uses 7631-86-9, Silica, uses

7758-98-7, Copper sulfate, uses 13463-67-7, Titanium dioxide, uses 26336-38-9, Polyvinylamine

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses) (deodorants; in deodorizing, antisoiling and fireproofing compns. for

L16 ANSWER 49 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1996:643461 CAPLUS Full-text

DOCUMENT NUMBER: 125:268190

TITLE: Water-absorbing polymer compositions containing metal

compounds, and a method for sterilizing the

compositions

INVENTOR(S): Chiba, Kazumasa; Tamura, Shinichi; Fukumoto, Tadao;

Kobavashi, Kazuhiko PATENT ASSIGNEE(S):

polyester fiber and fabrics)

Toray Industries, Japan Jpn. Kokai Tokkyo Koho, 9 pp. SOURCE:

CODEN: JKXXAF DOCUMENT TYPE: Pat.ent. LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:							
PATENT NO.	KIND		APPLICATION NO.		DATE		
JP 08208414 JP 3752710		19960813 20060308			19951031		
PRIORITY APPLN. INFO.: IT <u>Absorbents</u> Radiation Sterilization and	Disinfe	ction	JP 1994-268957				
for sterilization)		[-2				
IT Ionomers Phenolic <u>resins</u> , u Polyamides, uses Polyoxyalkylenes, RL: PEP (Physical, formulation); TEM USES (Uses)	uses engine (Technio	cal or engin	mical process); POF eered material use); lymer compns. contai	PRO	C (Process);		
for storilization)							
sterilization) 1 314-13-2, Zinc oxide, biological studies 1314-23-4, Zirconium oxide, biological studies 1314-35-8, Tungsten oxide, biological studies 1314-36-9, Yttrium oxide, biological studies 1322-29-2, Tin oxide 1344-28-1, Aluminum oxide, biological studies 11098-99-0, Molybdenum oxide 11099-11-9, Vanadium oxide 1104-61-3, Cobalt oxide 11113-84-1, Ruthenium oxide 11118-57-3, Chromium oxide 11129-18-3, Cerium oxide 11129-60-5, Manganese oxide 12032-30-3, Magnesium titanate 12047-27-7, Barium titanate, biological studies 12049-50-2, Calcium titanate 12060-59-2, Strontium titanate 12232-23-4 12673-69-7, Potassium titanate 1274-86-8, Ammonium phosphomolybdate 13463-67-7, Titanium oxide, biological studies 20667-12-3, Silver oxide 39302-37-9, Lithium titanate 51142-87-1, Sodium titanate RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); MOA (Modifier or additive use); FEF (Physical, engineering or chemical process); TEM (Technical or engineered material use); BIOL (Biological study); PROC (Process); USES (Uses)							
for sterilization)							
L16 ANSWER 50 OF 59 C ACCESSION NUMBER: DOCUMENT NUMBER: TITLE: INVENTOR(S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE:	1996: 124:1- Method partic Derol: Leonar Bio-Te	130918 CAPL 19895 d for making cles from si F, Mahlon Ro rd Harris echnical Res nt. Appl., 3 : PIXXD2	US Full-text spherical metal oxi lica hydrogels bert; Witt, Reinhard ources LP, USA				
FAMILY ACC. NUM. COUNT: PATENT INFORMATION:							

PATENT NO. KIND DATE APPLICATION NO. DATE

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WO 9535162
                        A1 19951228 WO 1995-US7120 19950616
        W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, IS, JP, KG,
            KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MX, NO, NZ, PL, RO, RU,
            SG, SI, SK, TJ, TM, TT, UA, UZ, VN
        RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT,
            LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,
            SN, TD, TG
    CA 2192548
                        A1
                              19951228 CA 1995-2192548
                                                                 19950616
    CA 2192548
                        C
                              19991102
    AU 9528173
                        A
                              19960115 AU 1995-28173
                                                                 19950616
                        A1 19970402
B1 19990317
                                          EP 1995-923713
    EP 765191
                                                                  19950616
    EP 765191
        R: CH, DE, FR, GB, IT, LI, NL
    CN 1155253 A 19970723 CN 1995-193654
JP 10501738 T 19980217 JP 1995-502292
                                                                 19950616
    JP 10501738
JP 3205559
                                                                 19950616
                       B2 20010904
                                          JP 1996-502292
                                                                  19950616
PRIORITY APPLN. INFO.:
                                          US 1994-262115 A 19940617
US 1995-448165 A 19950523
WO 1995-US7120 W 19950616
    Method for making spherical metal oxide adsorbent particles from silica
    bydrogels
    Silica gel, uses
    RL: NUU (Other use, unclassified); USES (Uses)
        (alkaline or acid-set hydrogel; spherical adsorbent particle manufacture
from
       hydrogels)
    Adsorbents
       (spherical adsorbent particle manufacture from hydrogels)
        (hydro-, silica; spherical adsorbent particle manufacture from
       hydrogels)
    Sols
       (hydro-, spherical adsorbent particle manufacture from hydrogels)
    1309-48-4, Magnesium oxide, uses 1314-13-2, Zinc oxide, uses
    1314-23-4, Zirconium oxide, uses 1327-33-9, Antimony oxide 1332-29-2,
    Tin oxide 1332-37-2, Iron oxide, uses 1344-28-1, Aluminum
    oxide, uses 7632-86-9, Silica, uses 13463-67-7, Titanium
    oxide, uses
    RL: NUU (Other use, unclassified); USES (Uses)
        (sol, Na-stabilized; spherical adsorbent particle manufacture from
       hydrogels)
L16 ANSWER 51 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1993:193564 CAPLUS Full-text
DOCUMENT NUMBER:
                       118:193564
TITLE:
                       Odor-absorbing antibacterial fabrics
                       Maeda, Nobuhide
INVENTOR(S):
PATENT ASSIGNEE(S):
                     Japan
SOURCE:
                       Jpn. Kokai Tokkvo Koho, 8 pp.
                       CODEN: JKXXAF
DOCUMENT TYPE:
                       Patent
LANGUAGE:
                        Japanese
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PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04308270	A	19921030	JP 1991-92619	19910401
JP 2579562	B2	19970205		

FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION: AB The title fabrics are prepd. by coating fabrics with mixts. comprising ceramics, prepared by firing compns. comprising 30-758 magnesia, 15-35% alumina, silica, ZnO, titania, zeolite, serpentine, or amphibole powders as the mixing component (A), and 15-35% additive selected from A component but not used as A component at 200-500°, and binders (e.g., acrylic polymers or epoxy resin). The coated fabrics exhibited good absorption of NH3 and H2S and good resistance to bacteria growth.

T Odor and Odorous substances (absorbents, textiles coated with ceramics as)

T Acrylic polymers, uses

Epoxy <u>resins</u>, uses RL: USES (Uses)

(binders, for coating of textiles with ceramics)

T 1309-48-4, Magnesia, uses <u>1314-13-2</u>, Zinc oxide, uses <u>1344-28-1</u>, Alumina, uses <u>7631-86-9</u>, Silica, uses

13463-67-7, Titania, uses

RL: USES (Uses)

(ceramics containing, textiles coated with, for antibacterial odor-absorbing properties)

L16 ANSWER 52 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1992:658083 CAPLUS Full-text

DOCUMENT NUMBER: 117:258083

TITLE: Effect of powder addition to carboxyvinyl polymer

hydrogel on viscoelasticity

AUTHOR(S): Ishikawa, Shigeyuki; Kobayashi, Masao

CORPORATE SOURCE: Pharm. Res. Lab., Tanabe Seiyaku Co., Ltd., Osaka, 532, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1992), 40(7),

1897-901

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal LANGUAGE: English

The influence of the addn. of powder on the viscoelasticity of carboxyvinyl polymer (CVP) hydrogel was studied by the oscillation method. The powderfilled hydrogels (PFHs) were prepared using Hiviswako 103 and 105 (CVP of rich side chains and poor side chains, resp.), and six powders [zinc oxide (ZnO), titanium dioxide (TiO2), magnesium stearate (StMg), talc, synthetic aluminum silicate (SiAl), and hydrated silicon dioxide (Cp)]. The profiles of storage modulus (G') and loss modulus (G'') of each PFH differed depending on powder and CVP. Log G' and log G'' changed little with TiO2, monotonously increased with talc, StMg and Cp, and showed fairly complex behaviors differing with polymer species with ZnO and SiAl. Plotting according to the Kerner equation suggested that powder bridge structures were formed in the PFHs. The possible structures formed in the PFHs were presumed as follows on the basis of their viscoelasticity change and microscopic observation. With TiO2: the original hydrogel network was not ruptured and powders were dispersed uniformly in the gel network. With talc, StMg and Cp: the original hydrogel networks and the powder bridge structures coexisted. With ZnO and SiAl: the original hydrogel networks were ruptured and powder bridge structures were constructed.

IT Viscoelasticity

(of carboxyvinyl polymer hydrogels, powders effect on)

IT Pharmaceutical dosage forms

(hydrogels, carboxyvinyl polymers, viscoelasticity of,

powders effect on)

T 557-04-0 $\frac{234-13-2}{\sqrt{632-85-2}}$, Zinc oxide (ZnO), biological studies 1335-30-4 $\frac{7632-85-3}{\sqrt{632-85-2}}$, Silica, biological studies 9003-03-6 9003-04-7 13463-67-7, Titanium oxide (TiO2), biological studies 14807-96-6, Talc (Mg3H2(S1O3)4), biological studies

RL: BIOL (Biological study) (viscoelasticity of carboxyvinyl polymer hydrogels in relation to)

L16 ANSWER 53 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1992:91147 CAPLUS Full-text

DOCUMENT NUMBER: 116:91147

TITLE: Metal oxide-coated UV absorbents for cosmetics INVENTOR(S): Miyamoto, Takuji; Kawanaka, Hajime; Hirayama, Kenzo

Ryuhodo Seiyaku Co., Ltd., Japan PATENT ASSIGNEE(S): SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF DOCUMENT TYPE: Patent LANGUAGE . Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION: DATENT NO

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03200721	A	19910902	JP 1989-344838	19891227
PRIORITY APPLN. INFO.:			JP 1989-344838	19891227
TI Motel ovido-costod	DIV although	chance for a	accompanies	

Metal oxide-coated UV absorbents for cosmetics

AB Cosmetics comprise polymeric fine powder- and/or inorg. fine powder-containing UV absorbents coated with metal oxides. The UV absorbents are safe to skin and uniformly dispersed in cosmetics. Porous silica (3 g) in n-hexane was mixed with 2 q 4-tert-butyl-4'-methoxydibenzovlmethane in n-hexane, then hexane was removed, and mixed with 4.5 mL 10 w/v n-hexane solution of iso-Pr titanate with aeration to prepare 4.1 g TiO2-coated UV absorbent. A sunscreen oil was prepared from olive oil 1.0, squalane 10.0, the UV absorbent 10.0, liquid paraffin 78.9, and fragrances 0.1 q.

ΙT Sunscreens

(UV absorbents coated with metal oxides for)

Oxides, biological studies

RL: BIOL (Biological study)

(UV absorbents coated with, for cosmetics)

Acrylic polymers, biological studies

Apatite-group minerals

Epoxy resins, biological studies

Kaolin, biological studies

Mica-group minerals, biological studies Polyamides, biological studies

Proteins, biological studies

RL: BIOL (Biological study)

(UV absorbents containing, coated with metal oxides, for cosmetics)

Alkenes, polymers

RL: BIOL (Biological study)

(polymers, UV absorbents containing, coated with metal oxides, for cosmetics)

Acrylic polymers, biological studies

RL: BIOL (Biological study)

(styrene-containing, UV absorbents containing, coated with metal oxides, for cosmetics)

Mica-group minerals, biological studies

RL: BIOL (Biological study)

(titanium, UV absorbents containing, coated with metal oxides, for cosmetics)

131-56-6, 2,4-Dihydroxybenzophenone 14779-78-3, Amyl N.N-dimethyl-p-aminobenzoate 70356-09-1, 4-tert-Butyl-4'methoxydibenzoylmethane

RL: BIOL (Biological study)

(UV <u>absorbents</u> containing polymer powders and/or inorg. powders and, coated with metal oxides, for cosmetics)

IT 100-42-5D, acrylic copolymers 1398-61-4, Chitin 7631-86-9,

Silica, biological studies 9004-34-6D, Cellulose, derivs. 9012-76-4, Chitosan 13463-67-7, Titanium oxide, biological studies 14807-96-6, Talc, biological studies

RL: BIOL (Biological study)

(UV <u>absorbents</u> containing, coated with metal oxides, for cosmetics)

IT 471-34-1, Calcium carbonate, biological studies <u>1314-13-2</u>, Zinc oxide, biological studies <u>1335-30-4</u>, Aluminum silicate <u>1344-28-1</u>, Aluminum oxide, miscellaneous <u>7727-43-7</u>, Barium sulfate RL: BIOL (Biological study)

(UV absorbents containing, for cosmetics)

L16 ANSWER 54 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1991:123826 CAPLUS Full-text

ACCESSION NUMBER: 1991:123826 DOCUMENT NUMBER: 114:123826

TITLE: Water-absorbent acrylic resins and their preparation

INVENTOR(S): Anderson, Mark

PATENT ASSIGNEE(S): American Colloid Co., USA SOURCE: U.S., 14 pp. Cont.-in-part of U.S. 4,677,174.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 12

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4954562	A	19900904	US 1989-303815	19890130
US 4677174	A	19870630	US 1986-854000	19860421
US 4755562	A	19880705	US 1986-872654	19860610
US 4794140	A	19881227	US 1987-126403	19871130
IN 175853	A1	19950930	IN 1988-DE691	19880810
PRIORITY APPLN. INFO.:			US 1980-67233 A:	2 19800625
			US 1986-854000 A:	2 19860421
			US 1986-872654 A:	2 19860610
			US 1986-816290 A	3 19860106

- II Water-absorbent acrylic resins and their preparation
- AB The title solid <u>resins</u> are prepared by mixing 70-100% neutralized acrylic acid, 0.001-5% inert and H2O-insol. metal oxide, H2O-soluble or -miscible polyvinyl monomers > 30%, H2O and polymerizing the mixture, and utilizing the heat of reaction to evaporate H2O to <15%. The incorporation of the metal oxide improves water absorption and water retention, and the <u>absorbents</u> maintain a dry feel after significant H2O absorption. A mixture of acrylic acid 48.01, T1O2 2.00, K0H 16.31, K2CO3 11.82, N,N-methylenebisacrylamide 0.02, azo polymerization initiators 0.36, (NH4)252O8 0.20, H2O 21.28% was initiated with a Na252O3 -NH4)252O8 mixture and cured in a 10 mm layer with exotherm to 120°, giving, after 30 min curing, a dry solid with H2O content 1%.
- IT Quaternary ammonium compounds, uses and miscellaneous RL: USES (Uses)

(acrylic polymer water absorbents surface treated with)

IT Absorbents

(for water, acrylic polymers containing water-insol. metal oxides as)

IT Acrylic polymers, preparation

RL: PREP (Preparation)

(preparation of, containing metal oxides, as absorbents for water)

1304-28-5, Barium oxide, uses and miscellaneous 1304-56-9, Beryllium oxide 1304-76-3, Bismuth oxide, uses and miscellaneous 1305-78-8, Calcium oxide, uses and miscellaneous 1306-19-0, Cadmium oxide, uses and miscellaneous 1309-48-4, Magnesium oxide, uses and miscellaneous 1309-64-4, Antimony trioxide, uses and miscellaneous 1314-13-2, Zinc oxide, uses and miscellaneous 1314-23-4, Zirconium oxide, uses and miscellaneous 1314-60-9, Antimony pentoxide 1332-29-2, Tin oxide 1332-37-2, Iron oxide, uses and miscellaneous 1335-25-7, Lead oxide 1344-28-1, Aluminum oxide, uses and miscellaneous 7446-08-4, Selenium dioxide 7631-86-9, Silicon dioxide, uses and miscellaneous 7787-59-9, Bismuth oxychloride 11099-11-9, Vanadium oxide 11104-61-3, Cobalt oxide 11129-18-3, Cerium oxide 11137-98-7, Aluminum magnesium oxide 12032-30-3, Magnesium titanium oxide 12049-50-2, Calcium titanium oxide 12789-64-9, Iron titanium oxide 13463-67-7, Titanium oxide (TiO2), uses and miscellaneous 37275-76-6, Aluminum zinc oxide 53027-24-0, Aluminum bervllium oxide RL: USES (Uses)

(acrylic polymer water absorbencs containing)

IT 106-89-8D, reaction products with hexamethylenediamine and dimethylamine 124-09-4D, 1,6-Hexanediamine, reaction products with dimethylamine and epichlorohydrin 124-40-3D, Dimethylamine, reaction products with hexamethylenediamine and epichlorohydrin 9002-98-6D, quaternized RI: USES (Uses)

(acrylic polymer water <u>absorbents</u> surface treated with)

II 86416-97-9P
RL: PREP (Preparation)

(preparation of, containing metal oxides, as absorbents for water)

L16 ANSWER 55 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1990:596446 CAPLUS Full-text

DOCUMENT NUMBER: 113:196446

TITLE: UV and IR <u>absorbence</u> for glasses

INVENTOR(S): Seki, Ichiro; Isa, Isao
PATENT ASSIGNEE(S): Japan Carlit Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF Patent

DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02075683	A	19900315	JP 1988-227437	19880913
PRIORITY APPLN. INFO.:			JP 1988-227437	19880913

TI UV and IR absorbents for glasses

AB The UV and IR <u>absorbents</u> are prepared by dispersing 0.01-1 µm white or lightcolored metal oxide particles into polymer-containing solns. The UV absorbent is selected from ZnO and TiO2, and the IR absorbent is selected from MgO, SiO2, TiO2, ZrO2, CeO2, Al2O3, La2O3, Na2O3, and Y2O3. The <u>absorbents</u> are sprayed on glasses and dried. A typical UV-IR absorbent comprises ZnO 5, GeO2 3, ZrO2 2, water 85, and poly(vinyl acetate) 5%.

Alkyd resins

RL: USES (Uses)

(IR and UV <u>absorbents</u> containing, metal oxide particles in, for glasses)

T Absorbents

(for IR and UV, metal oxide particle-based, for glasses)

IT 1306-38-3, Cerium dioxide, uses and miscellaneous 1309-48-4, Magnesia, uses and miscellaneous 1312-81-8, Lanthanum sesquioxide 1313-97-9,

Neodymium sesquioxide 1314-23-4, Zirconia, uses and miscellaneous 1314-36-9, Yttria, uses and miscellaneous $\underline{1344-28-1}$, Alumina, uses and miscellaneous $\underline{7631-86-9}$, Silica, uses and miscellaneous 9003-20-7, Polyvinyl acetate RI: USES (Uses)

(IR absorbents containing powdered, for glasses)

IT 64-17-5, Ethanol, uses and miscellaneous 71-43-2, Benzene, uses and miscellaneous 108-88-3, Toluene, uses and miscellaneous 110-54-3, n-Hexane, uses and miscellaneous 9002-89-5, Poly(vinyl alcohol) 9003-53-6, Polystyrene

RL: USES (Uses)

(IR and UV <u>absorbents</u> containing, metal oxide particles in, for glasses)

IT 1314-13-2, Zinc oxide, uses and miscellaneous 13463-67-7, Titania, uses and miscellaneous

RL: USES (Uses)

(UV absorbents containing powdered, for glasses)

L16 ANSWER 56 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1990:574858 CAPLUS Full-text

DOCUMENT NUMBER: 113:174858

TITLE: Compositions for absorption of ethylene

INVENTOR(S): Hoshino, Akira

PATENT ASSIGNEE(S): Dainichiseika Color and Chemicals Mfg. Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Fatent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
JP 02099139 JP 06087971	A B	19900411 19941109	JP 1988-249976	19881005		

PRIORITY APPLN. INFO.: JP 1988-249976 19881005 AB Resins 5-95% and 5-95% mixts. of synthetic zeolites (50-99) and metal oxides

(1-50%) are used to make compns. for absorption of ethylene. They are used for maintaining freshness of vegetables and fruits.

IT Alkyd <u>resins</u> RL: USES (Uses)

(absorption compns. containing, for ethylene)

IT <u>Absorbents</u>

(for ethylene)

IT Fruit

(storage of, ethylene absorbents for)

T 1305-78-8, Calcium oxide, uses and miscellaneous 1309-48-4, Magnesium oxide, uses and miscellaneous 1310-53-8, Germanium oxide, uses and miscellaneous 1314-11-0, Strontium oxide (SrO), properties 1313-13-22, Zinc oxide, uses and miscellaneous 1244-22-1, Aluminum oxide, uses and miscellaneous 9003-07-0, Polypropylene

Aluminum oxide, uses and miscellaneous 9003-07-0, Polypropylene 9003-53-6, Polystyrene 9004-70-0, Nitrocellulose 11104-61-3, Cobalt oxide

RL: USES (Uses)

(absorption compns. containing, for ethylene)

L16 ANSWER 57 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1990:500268 CAPLUS Full-text DOCUMENT NUMBER: 113:100268

TITLE: Compositions for absorption of ethylene

INVENTOR(S): Hoshino, Akira

Dainichiseika Color and Chemicals Mfg. Co., Ltd., PATENT ASSIGNEE(S):

Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.

CODEN: JKXXAF DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02078433	A	19900319	JP 1988-229893	19880916
JP 06087972	В	19941109		
RIORITY APPLN. INFO.:			JP 1988-229893	19880916

PRIORITY APPLN. INFO.: JP 1988-229893

Resins 5-95 and C2H4-absorbing agents (activated C and metal oxides) 5-95 parts are mixed to give compns. for absorption of C2H4. The compns. are used for storage of, e.g., fresh vegetables and fruits.

Alkyd resins

RL: USES (Uses) (absorption compns. containing, for ethylene)

(compns., for ethylene)

Food

Fruit

Vegetable

(storage of, ethylene absorbents for)

1305-78-8, Calcium oxide, uses and miscellaneous 1309-48-4, Magnesium oxide, uses and miscellaneous 1310-53-8, Germanium oxide, uses and miscellaneous 1314-11-0, Strontium oxide, uses and miscellaneous 1314-13-2, Zinc oxide, uses and miscellaneous 1344-28-1, Aluminum oxide, uses and miscellaneous 9003-07-0, Polypropylene 9003-53-6, Polystyrene 9004-70-0, Nitrocellulose

RL: USES (Uses)

(absorption compns. containing, for ethylene)

L16 ANSWER 58 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1990:124086 CAPLUS Full-text

DOCUMENT NUMBER: 112:124086

TITLE: Manufacture of porous, metal-containing carbonaceous

materials, and the materials obtained

INVENTOR(S): Tachibana, Masao PATENT ASSIGNEE(S): Somar Corp., Japan

SOURCE: Eur. Pat. Appl., 4 pp. CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 348204	A2	19891227	EP 1989-306332	19890623
EP 348204	A3	19910206		
EP 348204	B1	19931118		
R: DE, FR, GB				
JP 02006308	A	19900110	JP 1988-154893	19880624
JP 2615140	B2	19970528		
US 4970189	A	19901113	US 1989-370020	19890623

AB The title process comprises (a) providing finely divided particles of a metal oxide having average particle size \$1 \text{ µm}\$ (b) mixing the particles with an organic substance, and (c) carbonizing the mixture in a nonoxidizing atmospheric to convert the organic substance into a carbonaceous body, and to convert the metal oxide particles into metal particles dispersed in the carbonaceous body. The products have an open cellular structure, and, depending on the metal, may be used as \$0 \text{ absorbents}\$, whytogenation catalysts, \text{ absorbents}\$ for gases containing HCl or \$302\$, and as shields for electromagnetic waves. A mixture of coal powder (average particle size \$200 mesh 100, Fe203 powder (coated with monomol. layer of K stearate; average particle size \$50\text{A}) 50, and soft pitch (softening point apprx.50\text{9}) 30 weight parts was kneaded at 75\text{° and molded, and the resulting blocks were heated in a nonoxidizing atmospheric to 850\text{° at 10\text{\mathcal{M}min}}, and held at 850\text{° for 30 min}. The product was ground, and then 100 weight parts of the powder was mixed with 30 weight parts 15\text{ NoCl solution to obtain an O adsorbent.}

IT Pulp, cellulose

Asphalt

Carbohydrates and Sugars, reactions

RL: USES (Uses)

(carbonization of mixts. containing metal oxides and, for metal-containing porous carbonaceous materials, for <u>absorbents</u> and catalysts and electromagnetic shields)

IT Acrylic polymers, reactions

Epoxy resins, reactions

Phenolic resins, reactions

Polyamides, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

(carbonization of mixts. containing metal oxides and, for metal-containing porous carbonaceous materials, for $\underline{absorbents}$ and catalysts

and electromagnetic shields)

IT Combustion gases

Steam

(controlled atmospheric, carbonization of metal oxide-organic compound mixts. in,

for metal-containing porous carbonaceous materials, for <u>absorbents</u> and catalysts and electromagnetic shields)

IT Carbonaceous materials

RL: USES (Uses)

(manufacture of metal-containing porous, for <u>absorbents</u> and catalysts and electromagnetic shields)

IT Carbonization and Coking

(of metal oxide-organic substance mixts., for metal-containing porous carbonaceous materials for <u>absorpents</u> and catalysts and

electromagnetic shields)

IT Coke

RL: USES (Uses)

(powdered, carbonization of mixts. containing metal oxides and, for metal-containing porous carbonaceous materials, for <u>absorbents</u> and catalysts and electromagnetic shields)

IT Alkaline earth oxides

RL: RCT (Reactant); RACT (Reactant or reagent)

(reduction of, in carbonization of mixts. with organic compds., for metal-containing porous carbonaceous materials, for <u>absorbents</u>

and catalysts and electromagnetic shields)

Oxides, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

(reduction of, in carbonization of mixts. with organic substances, for metal-containing porous carbonaceous materials, for absorbents

and catalysts and electromagnetic shields)

IT Surfactants

(anionic, reduction of metal oxide particles coated with, in carbonization of mixts. with organic compds., for metal-containing porous carbonaceous materials, for <u>absorbents</u> and catalysts and electromagnetic shields)

IT Wood

(chips, carbonization of mixts. containing metal oxides and, for metal-containing porous carbonaceous materials, for <u>absorbents</u> and catalysts and electromagnetic shields)

IT Pitch

(coal-tar, carbonization of mixts. containing metal oxides and, for metal-containing porous carbonaceous materials, for <u>absorbents</u> and catalysts and electromagnetic shields)

IT Rice

(husk, carbonization of mixts. containing metal oxides and, for metal-containing porous carbonaceous materials, for <u>absorbents</u> and catalysts and electromagnetic shields)

IT Group IB element chalcogenides

Group IIB element chalcogenides Group IIIA element chalcogenides

Group IIIB element chalcogenides

Group IVA element chalcogenides

Group IVB element chalcogenides

Group VA element chalcogenides

Group VB element chalcogenides

Group VIB element chalcogenides

Group VIIB element chalcogenides Group VIII element chalcogenides

RL: RCT (Reactant); RACT (Reactant or reagent)

(oxides, reduction of, in carbonization of mixts. with organic compds., for metal-containing porous carbonaceous materials, for <u>absorbents</u> and catalysts and electromagnetic shields.

IT Pitch

(petroleum, carbonization of mixts. containing metal oxides and, for metal-containing porous carbonaceous materials, for <u>absorbents</u> and catalysts and electromagnetic shields)

T Fatty acids, compounds

RL: USES (Uses)

(salts, reduction of metal oxide particles coated with, in carbonization of mixts. with organic compds., for metal-containing porous carbonaceous materials, for <u>absorbents</u> and catalysts and electromagnetic shields)

IT Coconut

(shell flour, carbonization of mixts. containing metal oxides and, for metal-containing porous carbonaceous materials, for <u>absorbents</u> and catalysts and electromagnetic shields)

IT 50-00-0D, Formaldehyde, polymers 57-13-6D, Urea, polymers 75-01-4D, polymers 100-42-5D, polymers 9002-88-4, Polyethylene 9002-89-5, Poly (vinvl alcohol) 9003-07-0. Polyropovlene

RL: USES (Uses)

(carbonization of mixts. containing metal oxides and, for metal-containing porous carbonaceous materials, for <u>absorbents</u> and catalysts and electromagnetic shields)

IT 9005-25-8, Starch, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

(carbonization of mixts. containing metal oxides and, for metal-containing porous carbonaceous materials, for <u>absorbents</u> and catalysts and electromagnetic shields)

IT 124-38-9, Carbon dioxide, uses and miscellaneous 7727-37-9, Nitrogen,

uses and miscellaneous

RL: USES (Uses)

(controlled atmospheric, carbonization of metal oxide-organic compound mixts. in,

for metal-containing porous carbonaceous materials, for <u>absorbents</u> and catalysts and electromagnetic shields)

IT 9004-34-6

RL: USES (Uses)

(pulp, carbonization of mixts. containing metal oxides and, for metal-containing porous carbonaceous materials, for <u>absorbents</u> and catalysts and electromagnetic shields)

II 1304-28-5, Barium oxide, reactions 1305-78-8, Calcia, reactions 1309-48-4, Magnesia, reactions 1313-99-1, Nickel oxide, reactions 1314-13-2, Zinc oxide, reactions 1314-23-4, Zirconia, reactions 1327-33-9, Antimony oxide 1332-29-2, Tin oxide 1332-37-2, Iron oxide, reactions 1344-38-1, Alumina, reactions 1344-70-3, Copper oxide 11098-99-0, Molybdenum oxide 11099-11-9, Vanadium oxide 11104-61-3, Cobalt oxide 11118-57-3, Chromium oxide 12024-21-4, Gallium oxide 13463-67-7, Titania, reactions 20667-12-3, Silver oxide RL: RCT (Reactant); RACT (Reactant or reagent) (reduction of, in carbonization of mixts. with organic compds., for

metal-containing porous carbonaceous materials, for <u>absorbents</u> and catalysts and electromagnetic shields)

7732-18-5

RL: USES (Uses)

(steam, controlled atmospheric, carbonization of metal oxide-organic compound

mixts. in, for metal-containing porous carbonaceous materials, for absorbents and catalysts and electromagnetic shields)

L16 ANSWER 59 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1960:13625 CAPLUS Full-text

DOCUMENT NUMBER:

1960:13625 CAPLUS <u>Full-text</u> 54:13625

ORIGINAL REFERENCE NO.: 54:2731f-g

Dispersion of inorganic colloids in fuel oils

TITLE: INVENTOR(S):

Cliffe, John O. "Shell" Research Ltd.

PATENT ASSIGNEE(S): "She

DOCUMENT TYPE: Patent
LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 957592		19570207	DE 1954-S40177	19540727

AB <u>Hydrogels</u> of inorg, colloids are mixed with fuel oils of high ash content to be used in gas turbines, etc. After mixing at 20-100°, H2O is removed, e.g. by evaporation, and the mixture is treated mech. <u>Hydrogels</u> of 5102 and of oxides, hydroxides, carbonates of Mg, Zn, Al, and alkaline earth metals are used. Mixing is carried out in the presence of surface-active agents, e.g alkylamines.

IT Colloids

(hydrogels, dispersion in fuel oil)

IT 546-93-0, Magnesium carbonate 1309-42-8, Magnesium hydroxide

1309-48-4, Magnesium oxide $\frac{1314-13-2}{3486-35-9}$, Zinc oxide $\frac{1349-28-1}{3486-35-9}$, Zinc carbonate

7531-28-9, Silica 14455-29-9, Aluminum carbonate 20427-58-1, Zinc hydroxide

(colloidal, dispersion in fuel oil)

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=> focus 116
PROCESSING COMPLETED FOR L16
L18
           59 FOCUS L16 1-
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=> d L18 1-5

L18 ANSWER 1 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2005:99572 CAPLUS Full-text

DN 142:178205

TI Preparation of water-absorbent resin compositions with good deodorization, hygroscopic, fluid, separation-resistant, gel strength, and absorption properties for absorbent materials

TN Ueda, Hiroko; Wada, Katsuyuki; Nakashima, Yasuhisa

PA Nippon Shokubai Co., Ltd., Japan

SO PCT Int. Appl., 88 pp.

CODEN: PIXXD2 DT Patent

LA English FAN.CNT 1

FAN.	PATENT NO.						APPLICATION NO.											
PI	WO	2005	0101	02		A1	A1 20050203			WO 2004-JP10896					20040723			
		W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	KE,	KG,	KΡ,	KR,	ΚZ,	LC,	LK,
			LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NA,	NI,	NO,
			NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	ΤJ,
												VC,						
		RW:										SL,						
												BE,						
												LU,						
							ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,
				TD,														
						A1 20050203										0040		
							A 20050310			JP 2004-216530								
	EP	1648						2006	0426	EP 2004-748103					20040723			
			BE,															
		2004						2006	1003			2004-					0040	723
		1852						2006				2004-					0040	
	IN	2006	KN00	032		A		2007	0803		IN:	2006-	KN32			2	0060	103
	US	2006	0189	738		A1		2006	0824		US 2	2006-	5653	24		2	0060	120
	KR	7554	76			B1		2007	0904			2006-						
	MX	20061	PA01	014		A		2006	0801		MX 2	2006-	PA10	14		2	0060	125
PRAI	JP	2003	-280	373		A		2003	0725									
	WO	2004	-JP1	0896		W		2004	0723									

RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 2 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2002:607691 CAPLUS Full-text

DN 137:141567

- ΤI Manufacture of water-absorbing resins having high efficiency in drying step
- TN Tagawa, Daisuke; Fujita, Masahisa; Mukoda, Shingo
- PA Sanyo Chemical Industries, Ltd., Japan
- Jpn. Kokai Tokkvo Koho, 11 pp. SO

CODEN: JKXXAF

DT Patent

LA Japanese

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FAN.CNT 1
  PATENT NO. KIND DATE APPLICATION NO. DATE
               A 20020814 JP 2001-28395 20010205
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PI JP 2002226599 PRAI JP 2001-28395 20010205

- L18 ANSWER 3 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 2007:31359 CAPLUS Full-text
- DN 146:123095
- TI Dendritic-polymer-based bydrogels containing nanoparticles
- IN Carnahan, Michael A.; Clark, Jeffrey A.; Grinstaff, Mark W.; Stockman,
- PA Hyperbranch Medical Technology, Inc., USA
- SO PCT Int. Appl., 403pp.
- CODEN: PIXXD2
- DT Patent
- LA English

FAN.	CNT	1																
	PA'	TENT	NO.			KIN	D	DATE			APPL	ICAT	ION	NO.		D.	ATE	
PI	WO	2007	0052	49		A2	A2 20070111			WO 2006-US23723					20060619			
		W:	ΑE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FΙ,	GB,	GD,
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KM,	KN,	KΡ,	KR,
			ΚZ,	LA,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,	MW,
			MX,	MZ,	NA,	NG,	NI,	NO,	ΝZ,	OM,	PG,	PH,	PL,	PT,	RO,	RS,	RU,	SC,
			SD,	SE,	SG,	SK,	SL,	SM,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,
			UZ,	VC,	VN,	ZA,	ZM,	ZW										
		RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,
			IS,	IT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,
			CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG,	BW,	GH,
			GM,	KE,	LS,	MW,	ΜZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
			KG,	KZ,	MD,	RU,	TJ,	TM										

PRAI US 2005-694944P P 20050629

- L18 ANSWER 4 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 1991:123826 CAPLUS Full-text
- DN 114:123826
- TI Water-absorbent acrylic resins and their preparation
- IN Anderson, Mark
- PA American Colloid Co., USA
- SO U.S., 14 pp. Cont.-in-part of U.S. 4,677,174. CODEN: USXXAM
- DT Patent
- LA English

FAN	CNT 12						
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
PΙ	US 4954562	A	19900904	US 1989-303815	19890130		
	US 4677174	A	19870630	US 1986-854000	19860421		
	US 4755562	A	19880705	US 1986-872654	19860610		
	US 4794140	A	19881227	US 1987-126403	19871130		
	IN 175853	A1	19950930	IN 1988-DE691	19880810		
PRA	I US 1980-67233	A2	19800625				
	US 1986-854000	A2	19860421				
	US 1986-872654	A2	19860610				
	US 1986-816290	A3	19860106				

- L18 ANSWER 5 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- AN 1990:596446 CAPLUS <u>Full-text</u>

- 113:196446 DN
- TI UV and IR absorbents for glasses
- IN Seki, Ichiro; Isa, Isao
- PA Japan Carlit Co., Ltd., Japan
- Jpn. Kokai Tokkyo Koho, 4 pp. SO CODEN: JKXXAF
- DT Patent
- LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 02075683	A	19900315	JP 1988-227437	19880913
PRAI JP 1988-227	437	19880913		

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- L18 ANSWER 2 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- Manufacture of water-absorbing resins having high efficiency in drying step
- AB The process involves mixing (A) water-containing gels of polymers (prepared and undried) with (B) inorg, fine particles and (C) surfactants, followed with drying and optionally granulating and surface-crosslinking with (D) crosslinking agents. The water-absorbing resins are useful for disposable diapers, soil improvers, etc. Thus, a water-containing gel of Na acrylateacrylic acid-N, N'-methylenebis(acrylamide) copolymer (reaction ratio 76.7:23:0.3) was extruded, cut, mixed with 2% (on gel solid) of an aqueous dispersion containing talc (Crown Talc P) and polyethylene glycol distearate (Emulmin 862), laminated, dried at 140° and 2.0 m/s, and crushed to give powders showing excellent absorption of physiol, saline solution
- water absorbing resin manuf high drying speed; inorg fine particle water absorbing resin manuf; surfactant addn water absorbing resin manuf; acrylic polymer water absorber manuf drying
- Surfactants

(anionic; manufacture of water-absorbing resins having high efficiency in drying step by addition of)

- ΙT Absorbents
 - Drving

(manufacture of water-absorbing resins having high efficiency in drying step)

Mineral wool

(manufacture of water-absorbing resins having high efficiency in drying step by addition of)

Asbestos

Carbon black, uses Carbonates, uses

Chalk

Clays, uses

Glass fibers, uses

Lime (chemical)

Mica-group minerals, uses

Silicates, uses

Zeolites (synthetic), uses

RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process); USES (Uses)

(manufacture of water-absorbing regins having high efficiency in

drying step by addition of)

Balloons

Microspheres

(microballoons; manufacture of water-absorbing resins having high

efficiency in drying step by addition of)

Surfactants

(nonionic; manufacture of water-absorbing resins having high efficiency in drying step by addition of)

7789-75-5, Calcium fluoride, uses

RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process); USES (Uses) (activated; manufacture of water-absorbing resins having high

efficiency in drying step by addition of)

30280-72-9P, Acrylic acid-N, N'-methylenebis(acrylamide) copolymer 76774-22-6P, Acrylic acid-N, N'-methylenebis(acrylamide)-sodium acrylate copolymer

RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)

(manufacture of water-absorbing resins having high efficiency in drving step)

1309-48-4, Magnesia, uses 1314-13-2, Zinc oxide, uses 1314-23-4, Zirconia, uses 1317-33-5, Molybdenum disulfide, uses 1319-46-6, White lead 1338-39-2, Ionet S 20 1344-28-1, Alumina, uses 7631-86-9, Silica, uses 7727-43-7, Barium 9005-08-7, Emulmin 862 10043-01-3, Aluminum sulfate sulfate 10257-55-3, Calcium sulfite 13463-67-7, Titania, uses Crown Talc P, uses 33939-64-9, Beaulight LCA RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process); USES (Uses) (manufacture of water-absorbing resins having high efficiency in

drving step by addition of)

13397-26-7, Calcite, uses RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process); USES (Uses) (powdered; manufacture of water-absorbing resins having high

efficiency in drying step by addition of)

471-34-1, Calcium carbonate, uses RL: MOA (Modifier or additive use); PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process); USES (Uses) (whiting; manufacture of water-absorbing resins having high efficiency in drying step by addition of)

L18 ANSWER 3 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN

ΤI Dendritic-polymer-based hydrogels containing nanoparticles

One aspect of the present invention relates to compns. comprising polymers and AB nanoparticles that form hydrogeis useful as lens replacement materials, lens substitute materials, corneal inlays, and intraocular lenses. The hydrogels of the invention can be formed using a polyacrylate, silicone, or dendritic macromol. In certain instances, the bydrogels of the invention comprise nanoparticles ranging in diameter from about 0.1 nm to about 100 nm. The nanoparticles are generally dispersed throughout the hydrogel and may be covalently or noncovalently crosslinked. The nanoparticles may be made of a metal, metal oxide, or ceramic. In certain instances, the nanoparticles comprise a ceramic core coated with a layer of silica. Another aspect of the present invention relates to a method of forming a lens composition comprising treating a mixture of a polymerizable dendrimeric compound and nanoparticles with a polymerization agent. Another aspect of the present invention relates to a nanoparticle comprising a core coated with a layer of silica. In certain instances, the core is made of a metal, metal oxide, or ceramic. Another aspect of the invention relates to a kit for forming a lens comprising a polymerizable dendrimeric compound, nanoparticles, and a system for delivering the dendrimeric compound and nanoparticles to the lens bag of a patient.

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Lenses
    Nanoparticles
        (dendritic-polymer-based hydrogels containing nanoparticles)
     Dendrimers
     Polysiloxanes, uses
     Polyurethanes, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (dendritic-polymer-based hydrogels containing nanoparticles)
    Prosthetic materials and Prosthetics
        (endocapsular lens; dendritic-polymer-based hydrogets containing
        nanoparticles)
     Styrene-butadiene rubber, uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (hydrogenated, block, triblock; dendritic-polymer-based
        bydrogels containing nanoparticles)
ΤТ
    Ceramics
        (nanoparticles; dendritic-polymer-based hydrogels containing
        nanoparticles)
    Metals, uses
     Oxides (inorganic), uses
     Proteins
     Sulfides, uses
     Zeolites (synthetic), uses
     RL: TEM (Technical or engineered material use); USES (Uses)
        (nanoparticles; dendritic-polymer-based bydrogels containing
        nanoparticles)
        (non-reversible; dendritic-polymer-based hydrogels containing
        nanoparticles)
     2035-75-8P, Adipic anhydride 30424-64-7DP, benzylidene acetal-terminated
     91990-68-0P 338425-95-9P 338425-97-1P 338425-99-3P 374107-84-3P
     374107-85-4P 374107-86-5P 374107-89-8P 377073-42-2P
                                                                  377073-43-3P,
     2-(cis-1,3-0-Benzylidene glycerol)succinic acid mono ester
     377073-46-6DP, benzylidene acetal-terminated 377073-46-6P
     436803-73-5P, 2-(cis-1,3-O-Benzylidene glycerol)succinic acid mono ester
     anhydride, preparation 436803-74-6P 436803-75-7P 455281-37-5P
     455281-38-6P 455281-39-7P 455281-40-0P 455281-41-1P 455281-42-2P
     455281-43-3P 455281-62-6P, preparation 455281-63-7P, preparation
     455281-65-9P 455281-66-0P 455281-67-1P 457068-63-2P 457068-64-3P 474251-89-3P 474251-91-7P, preparation 474251-93-9P 474251-95-1P
    474251-98-4P 651332-49-9P 686774-58-3DP, benzylidene-protected 686774-58-3P 686774-65-2P 686774-74-3P 686774-77-6P 686774-81-2DP,
     benzylidene acetal-terminated 686774-81-2P 686774-83-4P 686774-85-6P
     686774-87-8P 686774-89-0P 686774-91-4P 686774-94-7P 686775-00-8P
     686775-02-0P 686775-04-2P 686775-14-4P 686775-18-8P 686775-20-2P
    686775-41-7P 686776-70-5P 686776-71-6P 686776-73-8P 686776-74-9P 686776-75-0P 686776-72-2P 686776-78-3P 686776-80-7P
     686776-83-0P 686776-84-1P 686776-85-2DP, deprotected 686776-85-2P
     688007-35-4P 688007-36-5P 880160-56-5P 880160-57-6P 880160-58-7P
     880343-37-3P 918550-40-0P 918550-41-1P
     RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
     (Reactant or reagent)
        (dendritic-polymer-based hydrogets containing nanoparticles)
    918550-36-4 918550-37-5 918550-38-6 918550-39-7
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RL: POF (Polymer in formulation); TEM (Technical or engineered material

(dendritic-polymer-based <u>hystrogels</u> containing nanoparticles) 97-67-6, L-Malic acid 110-15-6, Succinic acid, reactions 124-04-9, Adipic acid, reactions 405-39-0 513-42-8, 2-Methyl-2-propen-1-ol

Intraocular lenses

use); USES (Uses)

538-75-0, DCC 544-63-8, Myristic acid, reactions 598-72-1, 2-Bromopropionic acid 920-46-7, Methacryloyl chloride 4141-19-9, cis-1,3-0-Benzylidene glycerol 6066-82-6, N-Hydroxy succinimide 14690-00-7 58479-61-1, tert-Butylchlorodiphenylsilane 91944-64-8 RE: RCI (Reactant); RRCI (Reactant or reagent)

(dendritic-polymer-based <u>hydrogels</u> containing nanoparticles)

T 9002-89-5, Polyvinyl alcohol 9011-14-7, Polymethylmethacrylate
233682-93-4, 2-Hydroxyethyl methacrylate-6-hydroxyhexyl methacrylate
copolymer

RL: TEM (Technical or engineered material use); USES (Uses)
(dendritic-polymer-based hydrogels containing nanoparticles)

T 1305-78-8, Calcium oxide, uses 1306-38-3, Cerium dioxide, uses $\frac{1314-32-2}{1334-28-1}$, Zinc oxide, uses 1314-23-4, Zirconium dioxide, uses $\frac{1334-28-1}{1340-57-5}$, Gold, uses $\frac{7331-86-9}{740-44-0}$, Silmond, uses 13463-67-7, Titanium dioxide, uses 20667-12-3, Silver oxide Ri. TEM (Technical or engineered material use); USES (Uses)

(nanoparticles; dendritic-polymer-based <u>hydrogels</u> containing nanoparticles)

IT 694491-73-1D, hydrogenated, block, triblock

RL: TEM (Technical or engineered material use); USES (Uses) (styrene-butadiene rubber; dendritic-polymer-based <u>hydrogels</u> containing nanoparticles)

- L18 ANSWER 4 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- TI Water-absorbent acrylic resins and their preparation
- AB The title solid rearins are prepared by mixing 70-100% neutralized acrylic acid, 0.001-5% inert and HZO-insol. metal oxide, HZO-soluble or -miscible polyvinyl monomers >30%, HZO and polymerizing the mixture, and utilizing the heat of reaction to evaporate HZO to <15%. The incorporation of the metal oxide improves water absorption and water retention, and the absorption and material maintain a dry feel after significant HZO absorption. A mixture of acrylic acid 48.01, TiO2 2.00, KOM 16.31, KZOO3 11.82, N,N-methylenebiacarylamide 0.02, azo polymerization initiators 0.36, (NH4)25208 0.20, HZO 21.28% was initiated with a Na25203.6NH4)25208 mixture and cured in a 10 mm layer with exotherm to 120°, giving, after 30 min curing, a dry solid with HZO content 1%.
- T Quaternary ammonium compounds, uses and miscellaneous RL: USES (Uses)

(acrylic polymer water <u>absorbents</u> surface treated with)

(for water, acrylic polymers containing water-insol. metal oxides as)
IT Acrylic polymers, preparation

IT Acrylic polymers, prep RL: PREP (Preparation)

(preparation of, containing metal oxides, as <u>absorbents</u> for water) 1304-28-5, Barium oxide, uses and miscellaneous 1304-56-9, Beryllium oxide, 1304-578-8, Bismuth oxide, uses and miscellaneous 1305-78-8.

oxide 1304-76-3, Bismuth oxide, uses and miscellaneous 1305-78-8, Calcium oxide, uses and miscellaneous 1305-78-9, Calcium oxide, uses and miscellaneous 1305-8-9, Calcium oxide, uses and miscellaneous 1309-64-4, Antimony trioxide, uses and miscellaneous 1319-64-1, Antimony trioxide, uses and miscellaneous 1314-23-4, Zirconium oxide, uses and miscellaneous 1314-23-7, Zirconium oxide, uses and miscellaneous 1332-29-2, Tin oxide 1332-37-2, Iron oxide, uses and miscellaneous 1346-60-4, Selenium dioxide 7531-86-9, Silicon dioxide, uses and miscellaneous 746-08-4, Selenium dioxide 7531-86-9, Silicon dioxide, uses and miscellaneous 746-08-4, Selenium dioxide 7531-86-9, Silicon dioxide, uses and miscellaneous 746-08-3, Calcium dioxide 1104-61-3, Cobalt oxide 11129-18-3, Cerium oxide 11137-98-7, Aluminum magnesium oxide 12032-30-3, Magnesium titanium oxide 12049-50-2, Calcium titanium oxide

13463-67-7, Titanium oxide (TiO2), uses and miscellaneous 37275-76-6, Aluminum zinc oxide 53027-24-0, Aluminum beryllium oxide RL: USES (Uses)

(acrylic polymer water absorbents containing)

III 106-89-8D, reaction products with hexamethylenediamine and dimethylamine 124-09-4D, 1,6-Hexanediamine, reaction products with dimethylamine and epichlorohydrin 124-40-3D, Dimethylamine, reaction products with hexamethylenediamine and epichlorohydrin 9002-98-6D, quaternized RL: USES (Uses)

(acrylic polymer water absorbents surface treated with)

IT 86416-97-9P

RL: PREP (Preparation)

(preparation of, containing metal oxides, as absorbents for water)

- L18 ANSWER 5 OF 59 CAPLUS COPYRIGHT 2008 ACS on STN
- TI UV and IR absorbents for glasses
- AB The UV and IR <u>absorbents</u> are prepared by dispersing 0.01-1 µm white or light-colored metal oxide particles into polymer-containing solns. The UV absorbent is selected from ZnO and TiO2, and the IR absorbent is selected from MgO, SiO2, TiO2, ZrO2, CeO2, Al2O3, La2O3, Nd2O3, and Y2O3. The <u>absorbents</u> are sprayed on glasses and dried. A typical UV-IR absorbent comprises ZnO 5, GeO2 3, ZrO2 2, water 85, and poly(vinyl acetate) 54.
- IT Alkyd resins RL: USES (Uses)

(IR and UV <u>absorbents</u> containing, metal oxide particles in, for glasses)

T Absorbents

(for IR and UV, metal oxide particle-based, for glasses)

IT 1306-38-3, Cerium dioxide, uses and miscellaneous 1309-48-4, Magnesia, uses and miscellaneous 1312-81-8, Lanthanum sesquioxide 1313-97-9, Neodymium sesquioxide 1314-23-4, Zirconia, uses and miscellaneous 1314-36-9, Yttria, uses and miscellaneous 1344-28-1, Alumina, uses and miscellaneous 633-266-2, Silica, uses and miscellaneous 9003-20-7, Polyvinyl acetate
RI: USES (Uses)

(IR absorbents containing powdered, for glasses)

IT 64-17-5, Ethanol, uses and miscellaneous 71-43-2, Benzene, uses and miscellaneous 108-88-3, Toluene, uses and miscellaneous 110-54-3, n-Hexane, uses and miscellaneous 9002-89-5, Poly(vinyl alcohol) 9003-53-6, Polystyrene

RL: USES (Uses)

(IR and UV <u>absorbencs</u> containing, metal oxide particles in, for glasses)

IT $\frac{33\bar{4}-13-2}{\text{Titania,}}$ uses and miscellaneous 13463-67-7, Titania, uses and miscellaneous

RL: USES (Uses)

(UV absorbents containing powdered, for glasses)

=> file rea COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 241.18 255.76 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION -22.40 -23.20 CA SUBSCRIBER PRICE

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 8 APR 2008 HIGHEST RN 1012980-81-2 DICTIONARY FILE UPDATES: 8 APR 2008 HIGHEST RN 1012980-81-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=> e sanwet 3900

NUMBER OF TERMS TO DISPLAY IS OUT OF RANGE The total number of terms displayed in a single EXPAND command must be in the range 5-25.

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E87			3900/CN
E88	1		CM 5000MSP/CN
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E90	1	SANWET	
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E103	16	SANYL/E	3I
E104	1	SANYLEN	I/BI
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E107	4	SANYOEN	ISE/BI
E108	1	SANYOL	/BT
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L19
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L19 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2008 ACS on STN
RN
    172777-90-1 REGISTRY
ED
   Entered STN: 31 Jan 1996
     Sanwet 1M 3900G (9CI) (CA INDEX NAME)
CN
ENTE A hydrophilic powdered polymer; a crosslinked sodium polyacrylate (Sanyo
     Chemical)
MF
    Unspecified
CI PMS, MAN
PCT Manual registration
SR
    CA
LC
    STN Files: CA, CAPLUS, USPATFULL
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
              3 REFERENCES IN FILE CA (1907 TO DATE)
              3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
L19 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2008 ACS on STN
RN
    169313-67-1 REGISTRY
ED
   Entered STN: 27 Oct 1995
    Saravet IM 3900P (9CI) (CA INDEX NAME)
CN
ENTE A superabsorbent polymer (Hoechst Celanese)
MF Unspecified
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PCT Manual registration
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LC.
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*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
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L19 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2008 ACS on STN
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CI PMS, MAN

PCT Manual registration

SR CA

LC STN Files: CA, CAPLUS, USPATZ, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

5 REFERENCES IN FILE CA (1907 TO DATE) 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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- L19 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2008 ACS on STN
- RN 172777-90-1 REGISTRY
- Entered STN: 31 Jan 1996 ED
- Sanwet IM 3900G (9CI) (CA INDEX NAME)
- ENTE A hydrophilic powdered polymer; a crosslinked sodium polyacrylate (Sanyo
 - Chemical)
 - MF Unspecified
- CI PMS, MAN
- PCT Manual registration
- SR CA
- STN Files: CA, CAPLUS, USPATFULL
- DT.CA CAplus document type: Patent
- RL.P Roles from patents: USES (Uses)
- *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
 - 3 REFERENCES IN FILE CA (1907 TO DATE)
 - 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

- 126:144681 CA Full-text
- ΤI Preparation of flexible hydrophilic polyurethane foams using water at higher temperature
- IN Bleys, Gerhard J.; Gerber, Dirk; Neyens, Vivane G. J.
- Imperial Chemical Industries Plc, UK PA
- SO U.S., 8 pp., Cont.-in-part of U.S. Ser. No. 478,078, abandoned. CODEN: USXXAM
- DT Patent
- LA English
- IC ICM C08G008-32
 - ICS C08G008-10

EP 1995-201245

US 1995-463588

- NCL 521109100
- CC 35-5 (Chemistry of Synthetic High Polymers)

19950512

19950605

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	CN	1164243		A	19971105		CN	1995-19	6380	19951023			
	CN	1097066		В	20021225								
	EP	894814		A1	19990203		EP	1998-11	3472	19951023			
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	US	5849850		A	19981215		US	1996-69	6411	19960813			
	US	6271277		B1	20010807		US	1998-21	1586	19981214			
	AU	9917379		A	19990429		AU	1999-17	379	19990218			
	AU	720116		B2	20000525								
	CZ	287880		В6	20010314		CZ	1999-369	95	19991018			
	JP	200511315	55	A	20050428		JP	2005-34	55	20050111			
PRAI	EP	1994-2034	101	1994	11122								

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US 1995-478078 19950607
AU 1995-38063 19951023
EP 1995-935958 19951023
JP 1996-516483 19951023
US 1995-560858 19951120
US 1996-696411 19960813
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- Title foams are prepd. by reacting a prepolymer (NCO value 3-15 wt.%, 10-50°) AR which is the reaction product of excess polyisocyanate and a polyether polyol or a mixture of such polyols having an average nominal hydroxyl functionality of 2-6, an average hydroxyl equivalent weight of 500-5000 and an oxyethylene content of ≥50% by weight, with water (15-500 parts per 100 parts prepolymer, water temperature is 10-50° higher than the temperature of the prepolymer), preferably in the presence of a superabsorbent polymer. Thus, a 100 parts prepolymer at 22° [prepared from 70 parts triol-initiated polyether (77% oxyethylene) and 30 parts MDI1 containing 15 parts polyacrylamide-based superabsorbent was reacted with 70 parts water at 45° containing 0.8% Symperonic L 64 to give a foam having core d. 96 kg/m3 and maximum absorption of 0.9% NaCl 1470 g/dm3.
- polyether polyurethane flexible hydrophilic foam prepn; polyacrylamide superabsorbent flexible hydrophilic polyurethane foam; water temp polyurethane flexible foam prepn
- Polyurethanes, preparation

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(polyether-; preparation of flexible hydrophilic polyurethane foams using water at higher temperature)

ΙT Superabsorbents

(preparation of flexible hydrophilic polyurethane foams using water at higher temperature)

101-68-8DP, polymers with polyoxyethylene-polyoxypropylene triols 9003-11-6DP, Polyoxyethylene-polyoxypropylene copolymer, triol derivs., polymers with MDI

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation of flexible hydrophilic polyurethane foams using water at higher temperature)

ΤТ 79-06-1D, 2-Propenamide, polymers, uses 9003-04-7, Sodium polyacrylate 107709-25-1, Sanwet IM 7000 172777-90-1, Sanwet IM 3900G RL: MOA (Modifier or additive use); USES (Uses)

(superabsorbent; preparation of flexible hydrophilic polyurethane foams using water at higher temperature)

REFERENCE 2

- AN 125:88214 CA Full-text
- Process for making hydrophilic flexible polyurethane foams
- IN Bleys, Gerhard Jozef; Gerber, Dirk; Neyens, Viviane Gertrude Johanna
- PA Imperial Chemical Industries PLC, UK
- SO PCT Int. Appl., 29 pp.
- CODEN: PIXXD2
- DT Pat.ent.
- English LA
- ICM C08G018-48
- ICS G08G018-10
- 37-6 (Plastics Manufacture and Processing)

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9616099	A1	19960530	WO 1995-EP4144	19951023

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                     A1 19990203
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    AU 1995-38063
                    19951023
    EP 1995-935958
                   19951023
    JP 1996-516483
                    19951023
    WO 1995-EP4144
                    19951023
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AB A flexible foam is prepd. by reacting a prepolymer having an NCO value of 3—15% by weight, which is obtained by reacting excess polyisocyanate with a polyether polyol or a mixture of such polyols, said polyol or mixture having an average nominal OH functionality of 2-6, an average OH equivalent weight of 500-5000, and an oxyethylene content of ≥50% by weight, with water, the amount of water being 15-500 parts per 100 parts of the prepolymer, at the start of the reaction the temperature of the prepolymer being 10-50° and the temperature of the water being 10-50° higher than the temperature of the prepolymer. The process is especially effective when the prepolymer reacts with water in the presence of a superabsorbent polymer.

ST hydrophilic flexible polyurethane foam; superabsorbent polymer polyurethane foam

IT Absorbents

(preparation of hydrophilic flexible polyurethane foams in presence of superabsorbent polymers)

IT Urethane polymers, preparation

RL: IMF (Industrial manufacture); PRP (Properties); PRRP (Preparation) (polyoxyalkylene-, cellular; preparation of hydrophilic flexible polyurethane foams in presence of superabsorbent polymers)

IT 9003-04-7, Sodium polyacrylate

- RL: MOA (Modifier or additive use); TEM (Technical or engineered material use): USES (Uses)
- (crosslinked; preparation of hydrophilic flexible polyurethane foams in presence of superabsorbent polymers)
- 101-68-8DP, MDI, polymers with polyoxyethylene-polyoxypropylene triols 9003-11-6DP, Ethylene oxide-propylene oxide copolymer, triol-initiated, polymers with MDI
 - RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation) (preparation of hydrophilic flexible polyurethane foams)
- 9003-05-8D, Polyacrylamide, hydrolyzed 107709-25-1, Sodium acrylate-starch graft copolymer 172777-90-1, Sanwet IM 3900G RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
 - (preparation of hydrophilic flexible polyurethane foams in presence of superabsorbent polymers)

REFERENCE 3

- 124:89483 CA Full-text AN
- Dust-suppressing additives for powdered hydrophilic polymers
- IN Klotzsche, Helmut; Remmel, Gustav; Riegel, Ulrich; Stueven, Uwe
- PA Cassella AG, Germany
- Ger. Offen., 9 pp. SO CODEN: GWXXBX
- Patent DT
- LA German
- IC ICM C08J003-00
 - ICS C08J003-12; C08L033-02; C09K003-22; B01J020-26; A61L015-60; H01B003-44: H01B007-28
- ICA C08L051-02; C08L051-08; C08K005-01; C08K005-05; C08K005-09; C08K005-10; C08K005-20; C08K005-42; C08L083-04; C08L071-02; C09K017-00
- 38-3 (Plastics Fabrication and Uses)

FZ	M.	.с	NΤ	1	

FAN.	CNT 1				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΙ	DE 4414117	A1	19951026	DE 1994-4414117	19940422
	EP 679678	A2	19951102	EP 1995-104872	19950401
	EP 679678	A3	19951227		
	EP 679678	B1	20000105		
	R: BE, DE,	DK, ES	, FR, GB, IT,	NL, SE	
	ES 2141271	Т3	20000316	ES 1995-104872	19950401
	US 5681878	A	19971028	US 1995-424658	19950419
	FI 9501890	A	19951023	FI 1995-1890	19950420
	CA 2147545	A1	19951023	CA 1995-2147545	19950421

- PRAI DE 1994-4414117 19940422
- Additives comprising ≥1 siloxane and/or ≥1 other substance selected from fatty alcs., acids, esters, and amides, sulfated fatty amides and esters, sulfosuccinate esters, polvols, polvoxvalkylenes, alkoxylated alcs., paraffin oils, etc., are mixed with powdered hydrophilic polymers to suppress dust. The polymers are useful as absorbents for water and aqueous solns. such as blood and urine. Mixing 500 g Sanwet IM 5000 S with 0.25 g polyethylene glycol (mol. weight 300) reduced the amount of dust produced during handling.
- absorbent polymer powder dust suppression; superabsorbent polymer powder dust suppression; siloxane dust suppression absorbent powder; polyethylene glycol dust suppression absorbent powder; acrylic acid polymer absorbent dust suppression; starch acrylic polymer absorbent dust suppression TT Dust
 - (dust-suppressing additives for powdered hydrophilic polymers for use as absorbents)
- Paraffin oils

- Siloxanes and Silicones, uses RL: MOA (Modifier or additive use); USES (Uses) (dust-suppressing additives for powdered hydrophilic polymers for use as absorbents) ΤТ Polymers, uses RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (powdered, hydrophilic, absorbents; dust-suppressing additives for) (super-, dust-suppressing additives for powdered hydrophilic polymers for use as) 107-41-5, Hexylene glycol 112-35-6, Triethylene glycol monomethyl ether 577-11-7, Sodium dioctyl sulfosuccinate 9004-74-4, Polyethylene glycol monomethyl ether 9016-00-6, Dimethylsilanediol polymer, sru 25322-68-3 , Polyethylene glycol 25322-69-4, Polypropylene glycol 31900-57-9, Dimethylsilanediol polymer 106392-12-5, Ethylene oxide-propylene oxide block copolymer RL: MOA (Modifier or additive use); USES (Uses) (dust-suppressing additive for powdered hydrophilic polymers for use as absorbents) 9086-70-8 135991-38-7, Sanwet IM 5000S 163648-94-0, Sanwet IM 5000SG 172599-42-7 172777-90-1, Sanwet IM 3900G 172778-02-8, Sanwet VS 3790 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (powdered, absorbents; dust-suppressing additives for) L19 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2008 ACS on STN RN 169313-67-1 REGISTRY ED Entered STN: 27 Oct 1995 CN Sarwet IM 3900P (9CI) (CA INDEX NAME) ENTE A superabsorbent polymer (Hoechst Celanese) MF Unspecified CI PMS, MAN PCT Manual registration SR CA
- LC STN Files: CA, CAPLUS, USPATFULL
 DI.CA CAplus document type: Patent
 RL.P Roles from patents: USES (Uses)
 *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
 - 1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

- AN 123:259266 CA Full-text
- TI Vibration-damping superabsorbent composites
- IN Goldberg, Harris A.; Pickton, Josephn M.; DiBiase, Josephn J.; Ryans, William T.
- PA Hoechst Celanese Corp., USA
- SO Eur. Pat. Appl., 12 pp.
 - CODEN: EPXXDW
- DT Patent
- LA English
 - C ICM B32B007-04
 - ICS G10K011-16; F16F001-36; B32B027-24
- CC 38-3 (Plastics Fabrication and Uses)
- FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

A1 19950621 EP 1994-119669 19941213 PI EP 658419 R: BE, DE, FR, GB, NL PRAI US 1993-169855 19931217 The composites suitable for use in construction panels or constrained-layer elements include a viscoelastic gel prepared from 99.5-92.5% water and 0.5-7.5% of a superabsorbent polymer. Preferably, the polymer is of the carboxylic acid type and optionally includes starch or cellulose. vibration damping superabsorbent composite; starch cellulose copolymer viscoelastic composite Viscoelastic materials IT (gels; viscoelastic gel-based vibration-damping superabsorbent composites) Vibration (dampers, viscoelastic gel-based vibration-damping superabsorbent composites) IT 9002-88-4, Polyethylene 9003-07-0, Polypropylene 25038-59-9, PET polvester, uses RL: TEM (Technical or engineered material use); USES (Uses) (film; viscoelastic gel-based vibration-damping superabsorbent composites) тт 7732-18-5, Water, uses 169313-67-1, Sanwet IM 3900P RL: TEM (Technical or engineered material use); USES (Uses) (viscoelastic gel; viscoelastic gel-based vibration-damping superabsorbent composites) L19 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2008 ACS on STN 158191-44-7 REGISTRY ED Entered STN: 12 Oct 1994 CN Sanwet IM 3900 (9CI) (CA INDEX NAME) ENTE A polyacrylate hydrogel (Hoechst Celanese) MF Unspecified CI PMS, MAN PCT Manual registration LC STN Files: CA, CAPLUS, USPAT2, USPATFULL DT.CA CAplus document type: Patent RL.P Roles from patents: BIOL (Biological study); PROC (Process); PRP (Properties); USES (Uses) *** STRUCTURE DIAGRAM IS NOT AVAILABLE *** 5 REFERENCES IN FILE CA (1907 TO DATE) 5 REFERENCES IN FILE CAPLUS (1907 TO DATE) REFERENCE 1 129:68410 CA Full-text AN TΙ Absorbent composition for disposable absorbent sheets Qin, Jian; Wallajapet, Palani Raj Ramaswami TN PA Kimberly-Clark Worldwide, Inc., USA SO PCT Int. Appl., 39 pp. CODEN: PIXXD2 DT Patent LA English ICM C08J003-075 IC ICS C08L101-14; A61L015-60 CC 37-6 (Plastics Manufacture and Processing) Section cross-reference(s): 38 FAN.CNT 1

APPLICATION NO. DATE

PATENT NO. KIND DATE

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WO 9824832
                     A1 19980611
                                       WO 1997-US21426 19971125
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            PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,
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    WO 1997-US21426 19971125
    An absorbent comprises either an acidic water-swellable, water-insol. polymer
     having a pKa .apprx.2-12 (such as polyacrylic acid) or a basic water-
     swellable, water-insol. polymer (such as chitosan) having a pKb .apprx.2-12
     and either a basic or an acidic second material. The absorbent composition
     has the ability to slowly absorb a large quantity of liquid, particularly
     while under an external pressure. The absorbent composition is useful in
     disposable absorbent products, such as diapers.
ST
    superabsorbent article blend polyacid polybase; chitosan polyacrylic acid
    blend absorbent
    Superabsorbents
       (absorbent polymer blend composition with ability to slowly reach full
swell
       capacity)
    Polyamines
    Polvimides, uses
    Quaternary ammonium compounds, uses
    RL: POF (Polymer in formulation); TEM (Technical or engineered material
    use); USES (Uses)
       (absorbent polymer blend composition with ability to slowly reach full
swell
       capacity)
    Amides, uses
    Amines, uses
    Hydroxides (inorganic)
    Imines
    Oxides (inorganic), uses
    RL: TEM (Technical or engineered material use); USES (Uses)
       (absorbent polymer blend composition with ability to slowly reach full
swell
       capacity)
   Polvamides, uses
    RL: POF (Polymer in formulation); TEM (Technical or engineered material
```

(poly(amino acids); absorbent polymer blend composition with ability to

use); USES (Uses)

slowly reach full swell capacity) Imines RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (polyimines; absorbent polymer blend composition with ability to slowly reach full swell capacity) 29299-74-9DP, Diallyldimethylammonium chloride-N,N'-methylenebisacrylamide copolymer, ion-exchanged 30280-72-9P, Acrylic acid-N,N'methylenebisacrylamide copolymer 69824-22-2P. Acrylamidomethylpropanesulfonic acid-N,N'-methylenebisacrylamide copolymer RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (absorbent polymer blend composition with ability to slowly reach full swell тт 9003-01-4, Poly(acrylic acid) 9012-76-4, Chitosan 158191-44-7, Sanwet IM 3900 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (absorbent polymer blend composition with ability to slowly reach full swell capacity) 1398-61-4, Chitin 9000-07-1, Carrageenan 9002-89-5, Poly(vinyl ΙT alcohol) 9002-98-6 9003-05-8, Poly(acrylamide) 9003-39-8, Poly(vinylpyrrolidone) 9004-32-4, Carboxymethylcellulose 9004-64-2, Hydroxypropylcellulose 9005-32-7, Alginic acid 9006-26-2, Ethylene-maleic anhydride copolymer 9057-06-1, Carboxymethyl starch 24991-23-9 25513-46-6, Poly(glutamic acid) 25608-40-6, Poly(aspartic 26063-13-8, Poly(aspartic acid) 26099-09-2, Polv(maleic acid) 31851-82-8, Poly(N-Vinylmorpholine) RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (absorbent polymer blend composition with ability to slowly reach full swell capacity) RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD (1) Fox, A; US 5578661 A 1996 CAPLUS (2) Medtronic Inc; WO 9115250 A 1991 CAPLUS (3) Procter & Gamble; WO 9522358 A 1995 CAPLUS (4) Procter & Gamble; WO 9615163 A 1996 CAPLUS (5) Procter & Gamble; WO 9615180 A 1996 CAPLUS (6) Procter & Gamble; WO 9617681 A 1996 CAPLUS REFERENCE 2 128:114267 CA Full-text Preparation and use of superabsorbent linings for food packaging IN Jonas, Gerd; Klimmek, Helmut; Krause, Frank; Pflueger, Klaus PA Stockhausen G.m.b.H. und Co. K.-G., Germany SO Ger. Offen., 22 pp. CODEN: GWXXBX

ICA C08L005-00; C08L023-02; C08L027-00; C08L031-00; C08L033-00; C08L051-00; C08L063-00; C08L067-02; C08L069-00; C08L079-02; C08L039-00; C08J003-24;

B01J020-26 17-4 (Food and Feed Chemistry) CC

ICS C09K003-32; B32B007-00; B65D081-26

DT Patent

LA German ICM B01J020-28

TC:

Section cross-reference(s): 38

FAN (TMC	1																	
r Auv.	PAT	ENT I	NO.							APPLICATION NO.									
PI	DE		5240		A	1	1998	0108		DI	3 19	96-1	9645	240	1996	1102			
															CN,			DK,	
			EE,	ES,	FI,	GB,	GE,	GH,	HU,	IL,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	
			LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	
			RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	UA,	UG,	US,	UZ,	
			VN,	YU,	zw														
		RW:																	
										PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	
		GN, ML, J 9734386			MR,	ΝE,	SN,	TD,	TG										
	ΑU	9734	386		A		1998	0202		Αl	J 19	97-3	4386		1997	0627			
	AU	7215	24		В.	2	2000	0706											
	EP	EP 909237 A1		1	1999	0421		E	2 19	97-9	3043	1	1997	0627					
	EP 909237 B1 R: AT, BE, CH, D																		
		9710																	
	CIN	1228	134		A		19990915 CN 1997-197551 19970 20020626 20001024 JP 1998-504717 19970 20020615 AT 1997-930431 19970 19980130 ZA 1997-5987 19970						0627						
	CN	1086	633 E1404	0.7	В		2002	1024			- 10	00 5	0.477	2	1007	0022			
	JP JP	2100	3140	0 /	1		2000	1024		3.5	r 10	20-0	2012	,	1007	0627			
	77	0705	007		7		1000	0120		AT 1997-930431					1007	0704			
	VD.	2000	02231	56	n n		2000	0130		WI.	1 10	00_7	20 / 1070	4	1000	1220			
	NO	9900	022J.	30	Δ.		1999	0305		Mo	19	99-3	3	4	1999	0105			
		6350																	
		2002																	
		2005																	
PRAT		1996						0 10 .								0,00			
		1996																	
		1997																	
	US 1999-147476 1																		
							10925												
										-									

- AB Superabsorbent polymers are used in food packaging linings to absorb ligs., depress microorganism growth, and prevent migration of soluble components into the food. Novel and com. polymers are evaluated for their suitability for use based on a quotient derived from factors that include retention (the so-called "teabag test"), absorption against pressure, and the amount of soluble components. Acrylate polymers with appropriate quotient values were further cross-linked to enhance suitability for food use and superiority to com. starch-polyacrylate and cross-linked polyacrylate superabsorbers was demonstrated.
- ST food packaging superabsorbent lining polyacrylate
- IT Textiles

(container containing absorbent; preparation and use of superabsorbent linings

for food packaging)

IT Vinyl compounds, biological studies

RL: FFD (Food or feed use); PRP (Properties); BIOL (Biological study); USES (Uses)

(polymers; preparation and use of superabsorbent linings for food packaging)

IT Food packaging materials

Superabsorbents

(preparation and use of superabsorbent linings for food packaging)

Acrylic polymers, biological studies

RL: FFD (Food or feed use); IMF (Industrial manufacture); PRP

(Properties); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and use of superabsorbent linings for food packaging)

IT 9004-34-6, Cellulose, biological studies

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses) (container containing absorbent; preparation and use of superabsorbent

linings for food packaging)

IT 51838-34-7P 139130-01-1P 201601-24-3P 201601-25-4P 201601-26-5P 201601-27-6P 201601-28-7P 201601-29-8P 201601-30-1P RL: FFD (Food or feed use); IMF (Industrial manufacture); PRP (Properties); BIOL (Biological study); PRSP (Preparation); USES (Uses)

(Properties); BIOL (Biological study); PREP (Preparation); USES (Uses: (preparation and use of superabsorbent linings for food packaging) 9003-01-4D, crosslinked 9086-70-8, Sanwet IM 1000 30280-72-9

135991-38-7, Sanwet IM 5000S 158191-44-7, Sanwet IM 3900 201749-78-2, Salsorb 90P RL: FFD (Food or feed use); PRP (Properties); BIOL (Biological study);

RL: FFD (Food or feed use); PRP (Properties); BIOL (Biological study).
USES (Uses)
(preparation and use of superabsorbent linings for food packaging)

REFERENCE 3

AN 126:119121 CA Full-text

- TI Coating substrates with superabsorbent and adhesive powders on substrates in an electric field
- IN Morris, Marion C.; Bomber, Robert R.; Chen, Franklin M. C.; Wideman, Ronald H.
- PA Kimberly-Clark Corporation, USA
- SO U.S., 18 pp., Division of U.S. Ser. No. 303,994.
- DT Patent
- LA English
- IC ICM B32B027-00
- NCL 428286000
- CC 42-2 (Coatings, Inks, and Related Products)

Section cross-reference(s): 38, 63

FAN.CNT 1 PATE ----PI US 5:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 5585170	A	19961217	US 1995-485950	19950607
×π	TTC 100/L-30300/	10040	0.00		

- PRAI US 1994-303994 19940909
 - BB In the manuf. of disposable absorbent products, powders contg. superabsorbents (such as hydrogel-forming polymers) and(or) adhesives which are responsive to an elec. field are coated on substrates by contacting the substrates with the powders while an elec. field is generated in the space between the powder delivery means and the substrate.
- SI elec field coating process powder; hydrogel polymer powder coating process; adhesive powder coating process; superabsorbent polymer powder coating process; disposable absorbent product manuf
- IT Epoxy resins, processes
 - RL: PEP (Physical, engineering or chemical process); PROC (Process) (amine-crosslinked; coating substrates with superabsorbent and adhesive powders on substrates in an elec. field in manufacture of disposable absorbent products)
- IT Styrene-butadiene rubber, processes
 - RL: PEP (Physical, engineering or chemical process); PROC (Process)
 (block, triblock, adhesive; coating substrates with superabsorbent and adhesive powders on substrates in an elec. field in manufacture of disposable absorbent products)
- IT Adhesives

Disposable diapers

Electric field

Superabsorbents

(coating substrates with superabsorbent and adhesive powders on substrates in an elec. field in manufacture of disposable absorbent products)

- Polyurethanes, processes
 - RL: PEP (Physical, engineering or chemical process); PROC (Process) (moisture-curable; coating substrates with superabsorbent and adhesive powders on substrates in an elec. field in manufacture of disposable absorbent products)
- IT Coating process
 - (powder; coating substrates with superabsorbent and adhesive powders on substrates in an elec. field in manufacture of disposable absorbent products)
- 694491-73-1 106107-54-4
 - RL: PEP (Physical, engineering or chemical process); PROC (Process) (styrene-butadiene rubber, block, triblock, adhesive; coating substrates with superabsorbent and adhesive powders on substrates in an elec. field in manufacture of disposable absorbent products)
- 79-10-7D, 2-Propenoic acid, crosslinked polymers, sodium salts, processes 9000-30-0, Guar gum 9000-69-5, Pectins 9002-18-0, Agar 9002-89-5, Poly(vinyl alcohol) 9003-05-8, Polyacrylamide 9003-47-8, Poly(vinylpyridine) 9004-32-4, Carboxymethyl cellulose 9004-64-2, Hydroxypropyl cellulose 9006-26-2, Ethylene-maleic anhydride copolymer
 - 28517-76-2, Poly(vinylmorpholinone) 158191-44-7, Sanwet IM 3900 186100-45-8, Drytech 2024 186100-54-9, Sharpei
 - RL: PEP (Physical, engineering or chemical process); PROC (Process) (superabsorbent; coating substrates with superabsorbent and adhesive powders on substrates in an elec. field in manufacture of disposable

REFERENCE 4

AN 125:284997 CA Full-text

absorbent products)

- ΤI Liquid absorbent liner material based on polymeric fibers for personal care articles
- Weber, Mary Eva Garvie; Gryskiewicz, Stanley Michael; Mayberry, Pamela Jean; Davis, James Arthur; Morman, Michael Tod; Meitner, Gary Howard; Collier, Leslie Warren, IV; Kollin, Nancy Donaldson; Cole, Douglas Bryan PA Kimberly-Clark Corp., USA
- SO S. African, 39 pp.
 - CODEN: SFXXAB
- DT Patent
- LA English
- ΙĊ ICM A61F
- ICS A41B; B32B
- CC 63-7 (Pharmaceuticals)
- Section cross-reference(s): 38

FAN.	CNT	1					
	PA:	TENT NO.	KIND	DATE	API	PLICATION NO.	DATE
PI	ZA	9410022	A	19950824	ZA	1994-10022	19941215
	EP	734238	A1	19961002	EP	1995-905382	19941216
	EP	734238	B1	20010919			
		R: BE, DE,	ES, FR	, GB, IT, NL,	SE		
	CN	1515236	A	20040728	CN	2002-20021561	901994121
	US	6221460	B1	20010424	US	1995-527284	19950912
PRAI	US	1993-169449	19931:	217			

16

WO 1994-US14402 19941216

- AB A liq. absorbing liner material comprises a facing layer and a support layer, said facing layer being joined to said support layer by a plurality of spaced-apart bonds forming peaks; peaks are being spaced from one another by channels, and a liquid absorbing material is disposed within said peaks for receiving liqs. The liquid absorbing liner material was prepared comprising a facing layer, i.e. a web material made of fibers having a polyethylene sheath surrounding a polyester core, and a backing layer, made of polyethylene sheath/polypropylene core bicomponent fibers. The liquid absorbent material used to fill the samples were made from webs having varying fiber compns., e.g. 60% 3.0d polyethylene/polypropylene terephthalate (PE/PET), 35% 1.8d PE/PET, and 5% polyethylene/polypropylene.
- ST polymer fiber medical lig absorbent liner
- IT Zeolites, biological studies
 - RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(Abscents 5000; odor reducing agent, liquid absorbent liner materials based on polymeric fibers for personal care products)

IT Polyester fibers, biological studies

Polypropene fibers, biological studies

Rayon, biological studies

RL: DEV (Device component use); POF (Polymer in formulation); PRP

(Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (blends with polyethylene fibers; liquid absorbent liner materials based on polymeric fibers for personal care products)

IT Pulp, cellulose

(fluffed, composites containing Sanwet IM 3900 and; liquid absorbent liner materials based on polymeric fibers for personal care products)

IT Medical goods

(absorbents, liquid absorbent liner materials based on polymeric fibers for personal care products)

T Medical goods

(bandages, liquid absorbent liner materials based on polymeric fibers for personal care products)

IT Siloxanes and Silicones, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(di-Me, ethoxylated, Y 12488; fibers treated with ; liquid absorbent liner materials based on polymeric fibers for personal care products) $\,$

IT Diapers

(disposable, liquid absorbent liner materials based on polymeric fibers for personal care products)

Polyolefin fibers

RL: DEV (Device component use); POF (Polymer in formulation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (ethylene, blends with polyethylene fibers; liquid absorbent liner materials based on polymeric fibers for personal care products)

IT Medical goods

(sanitary napkins, liquid absorbent liner materials based on polymeric fibers for personal care products)

IT 158191-44-7, IM 3900

RL: DEV (Device component use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(composites containing wood pulp fluff and; liquid absorbent liner materials

based on polymeric fibers for personal care products)

IT 182761-40-6, Arosurf PA 727

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(fibers treated with; liquid absorbent liner materials based on polymeric fibers for personal care products)

- IT 9002-88-4, Polyethylene
 - RL: DEV (Device component use); POF (Polymer in formulation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (fibers, blends with polyester or rayon fibers; liquid absorbent liner materials based on polymeric fibers for personal care products)
- IT 9003-07-0, Polypropylene 25038-59-9, Polyethylene terephthalate, biological studies
 - RL: DEV (Device component use); POF (Polymer in formulation); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (fibers, blends with polyethylene fibers; liquid absorbent liner materials based on polymeric fibers for personal care products)

REFERENCE 5

- AN 121:207840 CA Full-text
- TI Binding particles to fibers by hydrogen bonding
- IN Hansen, Michael R.; Young, Richard H.
- PA Weyerhaeuser Co., USA
- SO PCT Int. Appl., 112 pp.
- CODEN: PIXXD2 DT Patent
- LA English
- IC ICM B32B005-16
- 1C 1CM B32B003-16
 - ICS A61F013-15; B27N003-00
- CC 43-1 (Cellulose, Lignin, Paper, and Other Wood Products) Section cross-reference(s): 38

FAN.CNT 6

		TENT NO.			DATE		APPLICATION NO.	DATE			
PI	WO	9404351		A1			WO 1993-US7780	19930816			
		RW: AT,	BE,	CH, DE	, DK, ES,	FR,	GB, GR, IE, IT, LU,	MC, NL,	PT,	SE	
	US	5308896		A	19940503		US 1992-931284	19920817			
	HS	5589256		Α	19961231		IIS 1992-931279	19920817			
	CA	2140264		A1	19940303		CA 1993-2140264	19930816			
	CA	2140264		C	20050913		CA 1993-2140264 AU 1993-50198				
	AU	9350198		A	19940315		AU 1993-50198	19930816			
	EP	655970		A1	19950607		EP 1993-920179	19930816			
	EP	655970		B1	20021009						
							GB, GR, IE, IT, LI,			PT,	SE
	JP	08500270		T	19960116		JP 1994-506513	19930816			
	JP	3497166		B2	20040216						
	BR	9306920		A	19990112		BR 1993-6920	19930816			
							EP 2002-6487				
							GB, GR, IT, LI, LU,			PT,	ΙE
							EP 2002-7034	19930816			
					20041020						
							GB, GR, IT, LI, LU,			PT,	ΙE
	AT	225708		T	20021015		AT 1993-920179 ES 1993-920180	19930816			
	ES	2181693		Т3	20030301		ES 1993-920180	19930816			
	ES	2182830		Т3	20030316		ES 1993-920179	19930816			
	AT	280264		T	20041115		ES 1993-920179 AT 2002-7034 ES 2002-7034	19930816			
	ES	2230413		Т3	20050501		ES 2002-7034	19930816			
	US	5447977		A	19950905		US 1993-153819	19931115			
	US	5609727		A	19970311		US 1994-193301	19940207			
	US	5614570		A	19970325		US 1995-416338 US 1998-35636	19950404			
	US	20020025	435	A1	20020228		US 1998-35636	19980304			
	US	6391453		B2	20020521						
	US	6521339		B1	20030218		US 2000-574633 US 2000-704328	20000518			
	US	6596103		B1	20030722		US 2000-704328	20001101			

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US 20010021453 A1 20010913
                                       HS 2001-842615
                                                      20010426
    US 20020164375 A1 20021107
                                      US 2002-100858 20020318
    US 6627249
                   B2 20030930
    US 20030201051
                   A1 20031030
                                      US 2003-434507 20030507
    HS 7018490
                   B2
                        20060328
PRAI US 1992-931059
                  19920817
                  19920817
    US 1992-931213
    US 1992-931277 19920817
    US 1992-931278 19920817
    US 1992-931279
                  19920817
    US 1992-931284 19920817
    EP 1993-920179
                  19930816
    EP 1993-920180
                  19930816
                  19930816
    WO 1993-US7780
    US 1993-107467 19930817
    US 1993-107469 19930817
    US 1993-108217 19930817
    US 1993-108218 19930817
    US 1993-108219
                   19930817
    US 1993-153819
                   19931115
    US 1994-181494
                   19940112
    US 1995-486686
                  19950607
    US 1996-675803 19960705
    US 1997-791335 19970131
    US 1998-35636
                   19980304
    US 1999-455080 19991206
    US 2000-704328 20001101
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- AB Particles contg. groups capable of hydrogen bonding or coordinate covalent bonding are bonded to fibers containing groups capable of hydrogen bonding by using a binder containing groups capable of hydrogen bonding or coordinate covalent bonding, giving products which are easily densified. An aqueous solution of a polycaprolactone diol was sprayed onto superabsorbent acrylatestarch graft copolymer particles as the particles were added to air-entrained bleached kraft pulp fibers in a mixer, giving good bonding of particles to the fibers.
- ST hydrogen bonding superabsorbent particle fiber; polycaprolactone hydrogen bonding particle fiber; acrylate starch superabsorbent particle binding; pulp fiber binding superabsorbent particle; cellulose superabsorbent particle hydrogen bonding; absorbent particle hydrogen bonding particle Particles
- (absorbent, binding of fibers to, hydrogen bonding for)
- ΙT Fibers
 - RL: USES (Uses)
 - (binding of particles to, by hydrogen bonding)
- ΙT Pulp, cellulose
 - (fibers, binding of particles to, compds. for hydrogen bonding in)
- Binding materials
 - (hydrogen bond-forming, for absorbent particles with fibers) Hydrogen bond
- (in binding of absorbent particles to fibers)
- (particles, binding of fibers to, hydrogen bonding for) Polyolefin fibers
- RL: USES (Uses)
 - (ethylene, binding of absorbent particles to, by hydrogen bonding with binders)
- 62-76-0, Sodium oxalate 139-33-3, Disodium ethylenediamine tetraacetate 144-55-8, Sodium bicarbonate, miscellaneous 7632-50-0, Ammonium citrate 10043-01-3, Aluminum sulfate 158191-36-7, Favor 800 158191-44-7, IM 3900

RL: USES (Uses)

(absorbent particles, binding of fibers to, by hydrogen bonding) 79-10-7D, Acrylic acid, esters, polymers with starch 9005-25-8D, Starch, acrylate-grafted

RL: USES (Uses)

(absorbent particles, binding of fibers to, hydrogen bonding for)

56-40-6, Glycine, uses 56-81-5, Glycerin, uses 57-13-6, Urea, uses

63-42-3, Lactose 65-49-6, p-Aminosalicylic acid 107-35-7, Taurine

9002-98-6, Polyethylenimine 9003-01-4, Poly(acrylic acid) 9003-11-6,

Polyethylene glycol-polypropylene glycol copolymer 9003-20-7, Poly(vinyl acetate) 9003-47-8, Poly(vinyl pyridine) 25265-71-8, Dipropylene

glycol 25322-68-3, Polyethylene glycol 25718-94-9, Polyglycine

RL: USES (Uses)

(binders, for combining absorbent particles with fibers by hydrogen bonding)

IIT 24980-41-4D, diol derivs. 25248-42-4D, Poly(caprolactone) diol, diol
 derivs.
 RL: USES (Uses)

KL: USES (USE

(binders, for superabsorbent particles and fibers capable of hydrogen bonding)

IT 1333-74-0

RL: PRP (Properties)

1 FAVOR SXM 75/CN

(hydrogen bond, in binding of absorbent particles to fibers)

T 9004-34-6

E121

=> e favor SXM 880/cn

RL: TBM (Technical or engineered material use); USES (Uses) (pulp, fibers, binding of particles to, compds. for hydrogen bonding in)

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E122
                    FAVOR SXM 7500/CN
              1 --> FAVOR SXM 880/CN
E123
             1 --> FAVOR SXM 980/CN
1 FAVOR SXM 9100/CN
1 FAVOR SXM 9130/CN
1 FAVOR SXM 9135/CN
1 FAVOR SXM 9300/CN
1 FAVOR SXM 9304/CN
1 FAVOR SXM 9344/CN
1 FAVOR SXM 9543/CN
E124
E125
E126
E127
E128
E129
E130
E131
                    FAVOR T/CN
                    FAVOR Z 1030/CN
E132
             1
=> s e123
L20
              1 "FAVOR SXM 880"/CN
=> d 120 all
L20 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN
    303013-49-2 REGISTRY
RN
ED Entered STN: 16 Nov 2000
     Favor SAM 880 (9CI) (CA INDEX NAME)
CN
DR
     303178-91-8
ENTE A polyacrylate superabsorbent (Stockhausen, Inc., Greensboro, NC)
MF Unspecified
CI PMS, MAN
PCT Manual registration
SR CA
    STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL
DT.CA CAplus document type: Patent
```

RL.P Roles from patents: BIOL (Biological study); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE *** 15 REFERENCES IN FILE CA (1907 TO DATE) 15 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1

AN 143:393121 CA Full-text ΤI Differentially expanding absorbent structure

Ranganathan, Sridhar; Radwanski, Fred R.; Dav, Jenny L.; Krueger, Jeffrey IN

J.; Lefkowitz, Gregory M.; Kellenberger, Stanley R.; Wilhelm, Hoa La

PA USA

U.S. Pat. Appl. Publ., 23 pp. SO

CODEN: USXXCO DT Patent

LA English

IC ICM A61F013-15

NCL 604367000

63-7 (Pharmaceuticals)

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE US 20050228350 US 2004-820636 20040408 PT A1 20051013 WO 2005-US1265 20050112 A1 20051103 WO 2005102236 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,

PRAI US 2004-820636 20040408

An absorbent structure expands to a greater extent along one surface than along an opposite surface when in the presence of a liquid The absorbent structure may include a single layer, or 2 or more layers intimately bonded to one another. When in the presence of a liquid, the more expandable surface causes an increase in concavity in the X-Y plane of the structure, with the concavity being in the direction of the less expandable surface. One or both surfaces can be treated to adjust the resp. level of expandability. By inducing a formed shape upon hydration swelling, a trough shape can be generated to facilitate absorbent properties, containment, and fit. The invention includes absorbent articles having such an absorbent structure incorporated therein.

ST absorbent expanding diaper polymer

MR, NE, SN, TD, TG

ΙT Medical goods

(bandages; differentially expanding absorbent structure)

Absorbents Diapers

Packaging materials Superabsorbents

(differentially expanding absorbent structure)

Polyester fibers, biological studies Polyurethanes, biological studies Synthetic rubber, biological studies RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (differentially expanding absorbent structure)

Medical goods

(dressings; differentially expanding absorbent structure)

Medical goods

(incontinence pads; differentially expanding absorbent structure)

Medical goods

(panty liners; differentially expanding absorbent structure) Medical goods

(sanitary napkins; differentially expanding absorbent structure)

Clothing

(swimwear; differentially expanding absorbent structure)

Medical goods

(tampons; differentially expanding absorbent structure)

ΙT Plastic foams

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (thermoplastic; differentially expanding absorbent structure)

Plastics, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (thermosetting, foams; differentially expanding absorbent structure)

Clothing

(training pants; differentially expanding absorbent structure)

303013-49-2, Favor SXM 880 866549-74-8, ESC-HR 6

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (differentially expanding absorbent structure)

REFERENCE 2

AN 142:483414 CA Full-text

TI Integrally formed absorbent materials, absorbent products, and making them IN Sawyer, Lawrence Howell; Adam, Gabriel Hammam; Chambers, Leon E.; Cobbs, Susan Kathleen; Conrad, John Herbert; Daley, Michael Allen; Dodge, Richard Norris; Elliker, Peter Robert; Lefkowitz, Gregory Marc; Lennon, Eric Edward; Makoui, Kambiz Bayat; McDowall, Debra Jean; Melius, Shannon

Kathleen; Ranganathan, Sridhar; Zhang, Xiaomin PA

SO U.S. Pat. Appl. Publ., 26 pp. CODEN: USXXCO

DT Patent

LA

English IC ICM B32B005-26

ICS B32B005-16

NCL 442415000

40-10 (Textiles and Fibers) Section cross-reference(s): 38, 43, 63

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE US 20050112979 A1 20050526 US 2003-720299 20031124 PRAI US 2003-720299 20031124

An in-line formed web or other material (such as foams) having major surfaces in the X-Y plane and a depth in the Z direction is suitable for use as an integral fluid distribution and fluid retention material in a disposable absorbent article. The web or material contains multiple zones of material which may have both thermoplastic fibers/materials and absorbent material components. The multiple zones can have different compns. of thermoplastic fibers/materials and absorbent material as applied in-line by various arrangements of thermoplastic melt dies and absorbent fiber/material dispensers. By arranging ≥2 of the multiple zones in an opposing relation overlaid in the Z-axis direction of the web/material, a gradient can be formed

in the Z-direction of the web/material. In the case of airforming, by coordinating the timing and deposition of the material onto a forming wire, ≥1 of the multiple zones is arranged to have intermittent material deposition in ≥1 of a machine direction or a cross direction of the web. Thus the in-line formed integrated web has a Z-direction gradient of air laid material zones and zones of different materials intermittently placed in either the machine direction or the cross direction and may be customized according to the specific need for a single overall structure having fluid intake, distribution and retention properties in an absorbent article.

disposable diaper manuf

ΤТ Absorbents

> Cellulose pulp Disposable diapers

Superabsorbents

(integrally formed absorbent materials)

Plastic foams

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES

(integrally formed absorbent materials)

852245-58-0, SP 1284 852245-59-1, Favor SXM 9394

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(integrally formed absorbent materials)

303013-49-2, Favor SXM 880

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(superabsorbent; integrally formed absorbent materials)

REFERENCE 3

- AN 142:374991 CA Full-text
- TI Superabsorbent polymer aqueous paste and coating
- IN Ahmed, Iqbal; Jones, Angela M.; Tomlin, Scott; Smith, Scott J.
- PA Stockhausen, Inc., USA
- SO U.S. Pat. Appl. Publ., 8 pp. CODEN: USXXCO
- DT Patent
- LA English
- IC ICM C08K003-20
- NCL 524458000
- 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 37

FAN.CNT 1

	PAT	TENT :	NO.		KI	KIND DATE				APPLICATION NO.					DATE			
PI	US	2005	0800	182	A.	1	2005	0414		US 2003-685080 20031014								
	US	7163	969		B	2	2007	0116										
	WO	2005	0378	94	A	1	2005	0428		W	20	04-U	S340	04	2004	1014		
		W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
	CN, CO,		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
	GE, GH,		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,		
			LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,
			NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
			TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
		RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
			AZ,	BY,	KG,	ΚZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
			EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,

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SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
            SN, TD, TG
                          20060628
                                          EP 2004-795198 20041014
    EP 1673405
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
    CN 1867617
                         20061122
                                       CN 2004-80030267 20041014
                     A
                         20061212
    BR 2004015350
                      Α
                                        BR 2004-15350 20041014
    JP 2007512390
                     T
                                         JP 2006-535330
                          20070517
                                                          20041014
    US 20070088100
                     A1 20070419
                                         US 2006-610707 20061214
PRAI US 2003-685080 20031014
    WO 2004-US34004 20041014
     Title aq. superabsorbent polymer paste comprises a blend of (A) 1-5 wt% of
     superabsorbent polymer particles (e.g., Favor SXM 880) and (B) 95-99 wt% of an
     aqueous water-soluble polymer solution (e.g., acrylic acid-dimethylaminoethyl
     acrylate copolymer sodium salt). The present invention is also directed to a
     coated substrate comprising a substrate material (e.g., perforated
     polypropylene sheet) and the aqueous superabsorbent polymer paste.
     present invention is also directed to a method for reducing the loss of
     circulation fluids into flow passages of a subterranean formation during well
     drilling, completion or work over operations, by using the aqueous
     superabsorbent polymer paste of the present invention.
    superabsorbent water sol polymer ag paste coating well drilling
    Polvamides, miscellaneous
    RL: MSC (Miscellaneous)
        (aromatic, substrate; superabsorbent polymer aqueous paste and coating)
    Cellulose pulp
    Cotton fibers
        (substrate; superabsorbent polymer aqueous paste and coating)
    Acrylic polymers, miscellaneous
    Carbon fibers, miscellaneous
    Glass fibers, miscellaneous
    Polvamides, miscellaneous
    Polyesters, miscellaneous
    Polvolefins
    Rayon, miscellaneous
    RL: MSC (Miscellaneous)
       (substrate; superabsorbent polymer aqueous paste and coating)
    Superabsorbents
        (superabsorbent polymer aqueous paste and coating)
    Polymer blends
    RL: TEM (Technical or engineered material use); USES (Uses)
        (superabsorbent polymer aqueous paste and coating)
    Polymers, uses
    RL: IMF (Industrial manufacture); TEM (Technical or engineered material
    use); PREP (Preparation); USES (Uses)
        (water-soluble; superabsorbent polymer aqueous paste and coating)
    9002-88-4, Polyethylene
                             9003-07-0, Polypropylene
    RL: MSC (Miscellaneous)
        (substrate; superabsorbent polymer aqueous paste and coating)
    303013-49-2, Favor SXM 880
    RL: TEM (Technical or engineered material use); USES (Uses)
        (superabsorbent; superabsorbent polymer aqueous paste and coating)
    545715-14-8P, Acrylic acid-dimethylaminoethyl acrylate copolymer sodium
    salt
    RL: IMF (Industrial manufacture); TEM (Technical or engineered material
    use); PREP (Preparation); USES (Uses)
        (water-soluble polymer; superabsorbent polymer aqueous paste and coating)
             THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
(1) Anon; International Search Report in PCT US2004034004 2005
```

AB

ST

TТ

ΙT

(2) Anon; Written Opinion of the International Searching Authority in PCT

HS2004034004 2005

- (3) Flautt; US 6380298 B1 2002 CAPLUS
- (4) Flynn: US 6488999 B1 2002 CAPLUS
- (5) Heying; US 6581701 B1 2003 (6) Houben; US 6013325 A 2000 CAPLUS
- (7) Pappas; US 5817713 A 1998 CAPLUS
- (8) Walker; US 4635726 A 1987

REFERENCE 4

- AN 142:157452 CA Full-text
- ΤI Surface treatment of absorbent materials for absorbent articles with good gel bed permeability and centrifuge retention capacity
- TN Qin, Jian; Zhang, Xiaomin; Graverson, Debra Ann
- Kimberly-Clark Worldwide, Inc., USA PA
- SO U.S. Pat. Appl. Publ., 16 pp.
- CODEN: USXXCO
- DT Patent
- LA English
- ICM A61F013-15 ICS A61F013-20
- NCL 604367000
- CC 38-3 (Plastics Fabrication and Uses)
 - Section cross-reference(s): 63

FAN.CNT 1																					
	PA	TENT	NO.		KI	IND DATE APPLICATION NO.						DATE									
PI	US	2005	0027	268	 A	1	2005	0203		U	S 20	03-6	3191	6	2003	0731					
	WO	2005	0163	93	A	1	20050224			W	0 20	04-U	S102	05	2004	0402					
		W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,			
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,			
			TD,		Br,	ы,	CF,	CG,	CI,	CM,	GA,	GIV,	GQ,	GW,	PIL,	PIK,	NE,	SN,			
	FD	1654			70	1	2006	0510			D 20	0.4_0	0104	2	2004	0402					
	LLE		BE,					0310		12	20	04-0	0104	_	, ES, FI, GB, GD, KP, KR, KZ, LC, MX, MZ, NA, NI, SG, SK, SL, SY, YU, ZA, ZM, ZM, ZM, ZM, ZM, ZM, ZM, ZM, ZM, ZM						
	BR	2004						1003		В	R 20	04-1	3115		2004	0402					
										_											
					A 200 T 200																
			4300 B 200610							TW 2004-93121239 20040716											
PRAI	AI US 2003-631916 2003																				

WO 2004-US10205 20040402

AB An absorbent material is formed at least in part of a crosslinked polymer. The absorbent material has a centrifuge retention capacity (Centrifuge Retention Capacity Test) ≥20 g/g and a gel bed permeability under load (Gel Bed Permeability Under Load Test) ≥200 × 10-9 cm2 or a free swell gel bed permeability (Free Swell Gel Bed Permeability Test) ≥2,500 × 10-9 cm. The crosslinked polymer may comprise either at least about 75% anionic polymer or at least about 75% cationic polymer. In one embodiment, the crosslinked polymer is surface treated with a water soluble non-crosslinked polymer having a potential for becoming charged opposite that of the cross-linked polymer. Thus, 30 q Favor SXM 9543 a superabsorbent material was surface-treated with

- 2.5% (based on superabsorbent) Catiofast PR 8106 in water (at swell ratio 2.5), showing improved centrifuge retention capacity and gel bed permeability.
- T surface treatment absorbent article material gel bed permeability;
 Catiofast surface treated Favor superabsorbent centrifuge retention

capacity
IT Medical goods

(absorbents; surface treatment of absorbent materials for absorbent articles with good gel bed permeability and centrifuge retention capacity)

IT Polyelectrolytes

(anionic, crosslinked, absorbents; surface treatment of absorbent materials for absorbent articles with good gel bed permeability and centrifuge retention capacity)

IT Polvelectrolytes

(cationic, crosslinked, absorbents; surface treatment of absorbent materials for absorbent articles with good gel bed permeability and centrifuce retention capacity)

IT Medical goods

(hygienic materials, uses; surface treatment of absorbent materials for absorbent articles with good gel bed permeability and centrifuge retention capacity)

IT Absorbents

(medical; surface treatment of absorbent materials for absorbent articles with good gel bed permeability and centrifuge retention capacity)

Absorbents

Surface treatment

(surface treatment of absorbent materials for absorbent articles with good gel bed permeability and centrifuge retention capacity)

IT Diapers

(uses; surface treatment of absorbent materials for absorbent articles with good gel bed permeability and centrifuge retention capacity)

IT Polymers, uses

RL: TEM (Technical or engineered material use); USES (Uses)

(water-soluble, surface treatment agent; surface treatment of absorbent materials for absorbent articles with good gel bed permeability and centrifuge retention capacity)

- IT 26336-38-9D, Polyvinylamine, cationized 222625-61-8, Catiofast PR 8106 933470-98-5, Catiofast VFH
 - RL: TEM (Technical or engineered material use); USES (Uses)
 (surface treatment agent; surface treatment of absorbent materials for absorbent articles with good gel bed permeability and centrifuge retention capacity)
- IT 194739-20-3, Drytech 2035 303013-49-2, Favor SXM 880 438632-06-5, Favor SXM 9543
 - RL: TEM (Technical or engineered material use); USES (Uses) (surface treatment of absorbent materials for absorbent articles with good get bed permeability and centrifuge retention capacity)

REFERENCE 5

- AN 142:140127 CA <u>Full-text</u>
- TI Odor-mitigating compositions IN Parkhurst, Stephen L.; Osborn, Morey E.
- PA USA
- SO U.S. Pat. Appl. Publ., 18 pp.
- CODEN: USXXCO
- DT Patient.
- LA English
- IC ICM A61L009-015

ICS A61L009-02

NCL 424076200

CC 59-6 (Air Pollution and Industrial Hygiene)

MIND DATE

Section cross-reference(s): 62, 63

FAN.CNT 1

	PAIENI NO.			K1	ND	DAIE			A	PAPTA	CAII	ON N	υ.	DAIE					
PI	US	2005	0008	608	A	1	20050113			U:	S 20	03-6	1441	7	20030707				
	WO 2005006862			62	A	2	20050127			W	20 C	04-U	S213:	22	2004				
	WO 2005006862			A3 20050			0224												
		W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,	
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FΙ,	GB,	GD,	
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KP,	KR,	ΚZ,	LC,	
			LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NA,	NI,	
			NO,	ΝZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	
			ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW	
		RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	
			ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	

ADDITOATION NO

PRAI US 2003-614417 20030707

SN, TD, TG

The invention includes compns., devices, systems and methods for mitigating odors, pollutants and toxins from a gaseous or liquid environment. The present invention relates to devices that contain a formulation for removing foul odors from the air. In certain embodiments the present invention provides odor-mitigating reagents that are substantially incapable of leaching from the device during ordinary use. The present invention also contemplates applications where the invention can be safely worn in contact with the user's skin or hair. Certain embodiments of the invention therefore particularly relate to devices such as diapers, shoe liners, sanitary pads, wound dressings, face masks and the like. Another aspect of the invention contemplates applications wherein the device can be used in indoor and outdoor settings where it is desirable that the odor-controlling reagents not leach out of the device as a result of contact with ligs. Related embodiments of the invention include landfill odor abatement covers and various interior and industrial air fresheners.

EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,

ST odor mitigation compn polymeric reagent diaper incontinence pad; air purifier landfill cover odor control compn polymeric reagent

IT Alcohols, uses

RL: NUU (Other use, unclassified); USES (Uses)

(C12-14, ethoxylated, as promoter; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

IT Polvethers, uses

RL: NUU (Other use, unclassified); USES (Uses)

(as polymeric promoter; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

T Feces

Urine

(deodorization of; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

IT Air purification

(deodorization; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

T Medical goods

(dressings; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

IT Air purification

(filtration; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

IT Deodorants (personal)

(hair prepns.; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

IT Quaternary ammonium compounds, uses

RL: NUU (Other use, unclassified); USES (Uses)

(halides, as disinfectant; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

IT Medical goods

(incontinence pads; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

IT Solid wastes (landfill

(landfill, covers for; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

T Shoes

(linings; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

T Clothing

Safety devices

(masks; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

T Surfactants

(nonionic; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

Air filters

Air fresheners

Air purification apparatus

Diapers

Disinfectants

Odor and Odorous substances

(odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

IT Lewis acids Lewis bases

Polyoxyalkylenes, reactions

RL: CPS (Chemical process); PEP (Physical, engineering or chemical

process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent) (odor-mitigating compns. and use thereof in items such as diapers,

incontinence pads, air purifiers and landfill covers) Halides

RL: NUU (Other use, unclassified); USES (Uses)

(quaternary ammonium halides, as disinfectant; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

IT Clothing

Hair

Skin

(safe contact with; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

IT Medical goods

(sanitary napkins; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

IT 79-10-7D, Acrylic acid, esters, polymers RL: CPS (Chemical process); PEP (Physical, engineering or chemical

process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
("C" series, from Grain Processing Corp., as polymeric reagent
component; odor-mitigating compns. and use thereof in items such as
diapers, incontinence pads, air purifiers and landfill covers)

- T7-92-9, Citric acid, reactions RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent) (as Lewis acid; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)
- 1T 497-19-8, Sodium carbonate, reactions 584-08-7, Potassium carbonate 13397-26-7, Calcite, reactions RL: CPS (Chemical process); PBP (Physical, engineering or chemical

process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
(as Lewis base; odor-mitigating compns. and use thereof in items such
as diapers, incontinence pads, air purifiers and landfill covers)

IT 64-17-5, Ethanol, uses

RL: NUU (Other use, unclassified); USES (Uses)

(as disinfectant; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

2893-78-9, Dichloroisocyanuric acid sodium salt
RL: CPS (Chemical process); PEP (Physical, engineering or chemical

process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
(as oxidizing agent; odor-mitigating compns. and use thereof in items
such as diapers, incontinence pads, air purifiers and landfill covers)

IT 25322-68-3, Polyethylene oxide 25322-69-4, Polypropylene oxide RL: NUU (Other use, unclassified); USES (USes) (as polymeric promoter; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill

II 186270-48-4, Water-Lock A 140 195739-91-4, Carbopol Ultrez 10 303013-4 9-2, Pavor SXM 880 485824-97-3, Water-Lock A 120 824417-04-1, Hysorb 8200 824418-96-4, Favor SXM 7500

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent) (as polymeric reagent component; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

IT 260557-10-6, Aridall 1460

covers)

RL: NUU (Other use, unclassified); USES (Uses) (as polymeric reagent component; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

IT 7757-83-7, Sodium sulfite

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent) (as reducing agent; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

IT 7631-86-9, Fumed silica, uses

RL: NUU (Other use, unclassified); USES (Uses)

(colloidal, support material; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

IT 7664-41-7, Ammonia, processes

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); REM (Removal or disposal); PROC (Process)

(odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

IT 823821-70-1, L 588

RL: NUU (Other use, unclassified); USES (Uses)

(odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

T 93-59-4, Perbenzoic acid 937-14-4

RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)

(oxidizer; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

IT 413569-08-1, Polyacrylate homopolymer, uses RL: NUU (Other use, unclassified); USES (Uses)

(superabsorbent; odor-mitigating compns. and use thereof in items such as diapers, incontinence pads, air purifiers and landfill covers)

REFERENCE 6

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AN 141:76816 CA Full-text
TI High capacity absorbent structure and method for producing same
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IN Fell, David A.; Bosselaar, Cornelius

PA Kimberly-Clark Worldwide, Inc., USA

SO U.S. Pat. Appl. Publ., 23 pp.

CODEN: USXXCO

DT Patent

LA English

IC ICM A61F013-15 ICS A61F013-20

NCL 604378000

CC 63-7 (Pharmaceuticals)

FAN.CNT 1

L Pilv. C																			
		CENT I													DATE				
PΙ	US	2004	0122	394	A.	1	2004	0624		U	5 20	02-3	2783	6	2002	1223			
	US	6888	044		B:	2	2005	0503											
	CA	2509	210		A:	1	2004	0722		C	A 20	03 - 2	5092	10	2003	1103			
	WO	2004	0604	15	A	1	2004	0722		W	20	03-U	S349	01	2003	1103			
		W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,	
															ES,				
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															MX,				
															SK,		51,	10,	
															ZM,				
		RW:	BW,	GH,	GM,	KE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	
			BY,	KG,	ΚZ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	
			ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	
			TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
	AU	2003	2874	61	A	1	2004	0729		A	J 20	03-2	8746	1	2003	1103			
	EP	1575	627		A	1	2005	0921		EP 2003-781700					2003	1103			
															NL,		MC,	PT,	
															EE,				
	BD	2003																	
		. 2003017117 A																	
					B 20060211 A 20050816														
								0816		M.	X 20	05-P.	A606	6	2005	0607			
PRAI	US	2002	-327	836	20	0212	23												

AB An absorbent core for use in an absorbent article such as a diaper, training pant, feminine hygiene product, or an incontinence product includes a stabilized first absorbent layer and a second absorbent layer that contains a superabsorbent and absorbent fibers treated with a non-fugitive densification agent, e.g. glycerin. An absorbent core consisting of an upper absorbent

agent, e.g. glycerin. An absorbent core consisting of an upper absorbent layer formed with Favor SXM-880 31, Trevira 2 denier 3 mm Type 255 bicomponent binder fiber 9, and NB-416 Kraft pulp 60 %, and a second absorbent layer containing fibers treated with a densification agent (ND-416) and superabsorbent (Drytech 2035 M) was prepared for making pantyliners.

T absorbent fiber densification agent treatment superabsorbent

IT Cellulose pulp

WO 2003-US34901 20031103

(NB-416; high capacity absorbent structure containing superabsorbent and absorbent fibers treated with non-fugitive densification agent)

IT Polyester fibers, biological studies

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(Trevira; high capacity absorbent structure containing superabsorbent and absorbent fibers treated with non-fugitive densification agent)

IT Medical goods

(absorbents; high capacity absorbent structure containing superabsorbent and absorbent fibers treated with non-fugitive densification agent)

Superabsorbents

(high capacity absorbent structure containing superabsorbent and absorbent fibers treated with non-fugitive densification agent)

IT Cellulose pulp

(kraft; high capacity absorbent structure containing superabsorbent and absorbent fibers treated with non-fugitive densification agent)

IT Absorbents

(medical; high capacity absorbent structure containing superabsorbent and absorbent fibers treated with non-fugitive densification agent)

IT Medical goods

(panty liners; high capacity absorbent structure containing superabsorbent and absorbent fibers treated with non-fugitive densification agent)

IT 9004-34-6, CR-1654, biological studies

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(ND 416; high capacity absorbent structure containing superabsorbent and absorbent fibers treated with non-fugitive densification agent)

IT 56-81-5, Glycerin, biological studies 194739-20-3, Drytech 2035

303013-49-2, Favor SXM-880 473275-52-4, Drytech 2035M 666258-30-6, Celbond T 255

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(high capacity absorbent structure containing superabsorbent and absorbent fibers treated with non-fugitive densification agent)

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(23) Anon; EP 0763353 A2 1997

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- Extruded super absorbent web, absorbent article, and manufacturing process TI
- TN Copat, Marcelo S.; Wilhoit, Darrel Loel; Shah, Bakhtiar Alam; Faridi, Niloufar; Pearson, Laurence T.
- PA Tredegar Film Products Corporation, USA
- SO PCT Int. Appl., 76 pp. CODEN: PIXXD2
- Patent DT

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English
LA
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IC ICM B32B005-16

ICS B32B005-26; B32B027-04; B32B027-12; D04H001-00; D04H003-00 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 63

FAN.	CNT	1																	
		TENT I			KI		DATE					CATI			DATE				
PI		2003													2003	0617			
		W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
			co,	CR,	CU,	CZ,	DE.	DK,	DM,	DZ,	EC.	EE,	ES,	FI.	GB,	GD,	GE,	GH,	
															KZ,				
															NI,				
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	AU	2003	2455	30	A1 20031231					A	J 20	03-2	4553	0	20030617				
	US	2004	0078	015	A:	1	2004	0422		US 2003-462752 20030617									
	EP	1517	783		A.	1	2005	0330		EP 2003-739157 20						30617			
		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
			ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK		
	JP	2005	5297	68	T		2005	1006		J	P 20	04-5	1302	3	2003	0617			
PRAI	US	2002	-388	746P	20	0206	17												
	7.70	2002	TYOR	0010	20	200	2.72												

WO 2003-US19010 20030617

AB An absorbent article includes ≥1 topsheet, an absorbent core, an optional distribution layer, and a backsheet, ≥1 of which comprises ≥1 layer of an extruded superabsorbent web. The superabsorbent webs can be made by heating and mixing blends of thermoplastic resins and absorbent polymers in a continuous process, and then preferably extruding the web. The extruded superabsorbent web can be flat or formed, stretched, or unstretched, and coextruded or laminated with or to other materials.

superabsorbent extruded film thermoplastic absorbent polymer blend

Medical goods

(absorbents; extruded super absorbent web laminate with topsheet, absorbent core, and backsheet for absorbent articles)

IT Laminated plastic films

Nonwoven fabrics

Superabsorbents

(extruded super absorbent web laminate with topsheet, absorbent core, and backsheet for absorbent articles)

ΤТ Polvesters, uses

RL: BUU (Biological use, unclassified); POF (Polymer in formulation); TEM (Technical or engineered material use); BIOL (Biological study); USES

(extruded super absorbent web laminate with topsheet, absorbent core, and backsheet for absorbent articles)

IT Absorbents

> (medical; extruded super absorbent web laminate with topsheet, absorbent core, and backsheet for absorbent articles)

Medical goods

(panty liners; extruded super absorbent web laminate with topsheet, absorbent core, and backsheet for absorbent articles)

Polymer blends

RL: BUU (Biological use, unclassified); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)

(thermoplastic resins/absorbent polymers; extruded super absorbent web laminate with topsheet, absorbent core, and backsheet for absorbent

articles)

T Plastics, uses

RL: BUU (Biological use, unclassified); POF (Polymer in formulation); TEM (Technical or engineered material use); BIOL (Biological study); USES (USES)

(thermoplastics; extruded super absorbent web laminate with topsheet, absorbent core, and backsheet for absorbent articles)

IT 24937-78-8, Ethylene-vinyl acetate copolymer

RL: BUU (Biological use, unclassified); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)

(Elvax 3134; extruded super absorbent web laminate with topsheet,

absorbent core, and backsheet for absorbent articles)

IT 25053-53-6, Ethylene-methacrylic acid copolymer

RL: BUU (Biological use, unclassified); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)

(Optema TC-120; extruded super absorbent web laminate with topsheet, absorbent core, and backsheet for absorbent articles)

IT 9002-88-4, Polyethylene 26221-73-8, Affinity PL 1280 252044-54-5, Dowlex 2247A

RL: BUU (Biological use, unclassified); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)

(extruded super absorbent web laminate with topsheet, absorbent core, and backsheet for absorbent articles)

9003-07-0, Polypropylene 9003-53-6, Polystyrene 9010-77-9,

Ethylene-acrylic acid copolymer RL: BUO (Biological use, unclassified); POF (Folymer in formulation); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)

(extruded super absorbent web laminate with topsheet, absorbent core, and backsheet for absorbent articles)

IT 303013-49-2, Favor SXM 880 477890-50-9, FAVOR PAC 100

RL: BUU (Biological use, unclassified); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); BIOL (Biological study); USES (Uses)

(superabsorbents; extruded super absorbent web laminate with topsheet, absorbent core, and backsheet for absorbent articles)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

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- (2) Stone; US 6353149 B1 2002 CAPLUS
- (3) Wang; US 6329468 B1 2001 CAPLUS

REFERENCE 8

- AN 140:6337 CA Full-text
- TI Material enhancement to maintain high absorbent capacity under high loads following rigorous process conditions
- IN Lange, Nancy Birbiglia; Reeves, William Grover; Melius, Shannon Kathleen
- PA Kimberly-Clark Worldwide, Inc., USA
- SO U.S. Pat. Appl. Publ., 20 pp., Cont.-in-part of U.S. Ser. No. 545,156. CODEN: USXXCO
- DT Patent
- LA English
- IC ICM B32B005-16
- NCL 428407000
- CC 43-9 (Cellulose, Lignin, Paper, and Other Wood Products)
 Section cross-reference(s): 38, 63

FAN.CNT 3

	PATENT NO.				ND	DATE			APPLICATION NO.					DATE					
PI		2002	0150		А	_	2002 2004	1017				01-3			2001	1221			
		6387			_	_	2004					00 5	4 E 4 E	,	2000	0.400			
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		2003057764				_	2003			W	0 20	02-0	53/6	55	20021121				
	WO	W: AE, AG,					2003		2.0		nn.	200	nn.	D.1.	200		011	011	
		W:																	
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															NO,				
													SL,	ТJ,	TM,	TN,	TR,	TT,	
							VC,												
		RW:													ZW,				
			KG,	ΚZ,	MD,	RU,	ТJ,	TM,	ΑT,	ΒE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	
			FΙ,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	SK,	TR,	BF,	ΒJ,	CF,	
			CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG				
	AU	2002	3528	91	A	1	2003	0724		A	U 20	02-3	5289	1	2002	1121			
	EP	1465	940		A	2	2004	1013		E	P 20	02-7	8985	1	2002	1121			
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
			IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	SK			
	MX	2004	2004PA05294 A				2004	0913		M	X 20	04-P.	A529	20040602					
PRAI	US	2000	-545	156	20	0004	07												
	US	1999	-129	744P	19	9904	16												
	US	2001-36755			20	0112	21												

- AB An absorbent composite that can handle complex fluids and maintain high absorbent capacity under high loads even after the material has been subjected to rigorous processing conditions. The absorbent composite includes an inhomogeneously crosslinked superabsorbent polymer having a highly crosslinked outer shell. The surface of the superabsorbent polymer includes a protective fibrous coating material and an association agent.
- assocn agent fluidization cellulose coating polyacrylate superabsorbent complex fluid; silica water assocn fluidization coating polyacrylate superabsorbent complex fluid; perlite water assocn fluidization coating polyacrylate superabsorbent complex fluid Medical goods
- IT

(absorbents; inhomogeneously crosslinked superabsorbent coated particles material enhancement to maintain high absorbent capacity under high loads following rigorous process conditions)

IT Perlite

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(coating material, Silkleer 25M or Ryolex 39; inhomogeneously crosslinked superabsorbent coated particles material enhancement to maintain high absorbent capacity under high loads following rigorous process conditions)

Diapers

Hydroscopic substances

WO 2002-US37655 20021121

Superabsorbents

(inhomogeneously crosslinked superabsorbent coated particles material enhancement to maintain high absorbent capacity under high loads following rigorous process conditions)

Absorbents

(medical; inhomogeneously crosslinked superabsorbent coated particles material enhancement to maintain high absorbent capacity under high loads following rigorous process conditions)

Fluidization

(of coating material; inhomogeneously crosslinked superabsorbent coated

particles material enhancement to maintain high absorbent capacity under high loads following rigorous process conditions)

Swelling, physical

(of superabsorbent; inhomogeneously crosslinked superabsorbent coated particles material enhancement to maintain high absorbent capacity under high loads following rigorous process conditions)

Cellulose pulp

(powdered-coating material; inhomogeneously crosslinked superabsorbent coated particles material enhancement to maintain high absorbent capacity under high loads following rigorous process conditions)

7732-18-5, Water, processes

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)

(distilled, association agent; inhomogeneously crosslinked superabsorbent coated particles material enhancement to maintain high absorbent capacity under high loads following rigorous process conditions)

7631-86-9, Zeofree 5175A, uses 9004-34-6, Excel 110, uses RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(powdered-coating material; inhomogeneously crosslinked superabsorbent coated particles material enhancement to maintain high absorbent capacity under high loads following rigorous process conditions)

194739-20-3, Drytech 2035 303013-49-2, Favor SXM 880

RL: TEM (Technical or engineered material use); USES (Uses) (superabsorbent; inhomogeneously crosslinked superabsorbent coated particles material enhancement to maintain high absorbent capacity under high loads following rigorous process conditions)

RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD

- (1) Ahr; US 5800418 A 1998
- (2) Ahr; US H1909 H 2000
- (3) Anon; EP 0339461 B1 1993
- (4) Anon; WO 96/14885 1996 CAPLUS (5) Anon: WO 97/27884 1997 CAPLUS
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- (18) Hansen: US 5998032 A 1999
- (19) Harada; US 5368918 A 1994
- (20) Kajikawa; US 6103785 A 2000 CAPLUS
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- (22) Kobayashi; US 5489469 A 1996
- (23) Melius: US 5601542 A 1997
- (24) Melius; US 6214274 B1 2001
- (25) Reeves: US 6387495 B1 2002 CAPLUS
- (26) Rezai; US 5713881 A 1998
- (27) Rezai; US 5859074 A 1999 CAPLUS
- (28) Roe; US 5102597 A 1992
- (29) Roe; US 5124188 A 1992
- (30) Steger; US 5855571 A 1999
- (31) Wang; US 5843575 A 1998

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(32) Wang; US 5849405 A 1998
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- (33) Wang; US 5851672 A 1998 (34) Wang; US 5858535 A 1999
- (35) Young; US 5230959 A 1993

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- 139:382756 CA Full-text AN
- TI Meltblown absorbent fibers and composites and their manufacture
- Oin, Jian; Wang, James Hongxue; Wisneski, Anthony John; Tsai, Fu-iva IN Daniel
- PA USA
- U.S. Pat. Appl. Publ., 13 pp.
- CODEN: USXXCO
- DT Patent LA English
- TC
 - ICM D04H001-00
- ICS D04H003-00; D04H005-00; D04H013-00; D02G003-00
- NCL 428364000
- 40-10 (Textiles and Fibers) FAN. CNT 1

PAN.CNI I																			
		PAT	TENT I	NO.		KI	ND	DATE			Al	PPLI	CATI	ON N	٥.	DATE			
	PI	US	2003	0219	594		1	2003	1127		U	S 20	02-1	5460	7	2002	0523		
		WO	2003	0993	45	A	1	2003	1204		W	20	03-U	S679	8	2003	0305		
		WO	2003	0993	45	A.	9	2004	0902										
			W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
				CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
				GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,
				LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	NZ,	OM,	PH,
				PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	ΤJ,	TM,	TN,	TR,	TT,	TZ,
				UA,	UG,	UΖ,	VC,	VN,	YU,	ZA,	ZM,	zw							
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								HU,											
								CI,										TD,	TG
			2003			A.		2003								2003			
			BR 2003010007					2005											
		EP	EP 1506024					2005											
			R:					DK,											PT,
								FI,										SK	
		CN	1652	827		A		20050810			CN 2003-810300 20030305								

- PRAI US 2002-154607 20020523
- WO 2003-US6798 20030305
- AB An absorbent fiber is produced from a melt processable polymer. An absorbent composite includes the absorbent fiber in addition to natural fibers and superabsorbent material. A coform material with both superabsorbent particles FAVOR SXM 880 and wood pulp fluff CR 1654 at a ratio of 48% superabsorbent particles, 26% polyvinyl alc. and 26% wood pulp fluff was formed, a solution including 5% KYMENE and 0.5% surfactant Rhodamox LO was sprayed onto the surface of the coform material, and the coform material was heat cured at 150° for 3 h. The coform material exhibited an AUZL value in 0.9% NaCl saline as high as 23 g/g.
- ST vinal fiber cellulose pulp superabsorbent nonwoven
- ΙT Medical goods
 - (absorbents; meltblown absorbent web and composites for)
- Medical goods
- (incontinence pads; meltblown absorbent web and composites for)
- Absorbents
 - (medical; meltblown absorbent web and composites for)

- IT Disposable diapers
 - (meltblown absorbent web and composites for cores for)
- IT Vinal fibers

RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(meltblown absorbent web and composites of water-swellable)

- IT Natural fibers
 - RL: TEM (Technical or engineered material use); USES (Uses)
 - (meltblown absorbent web and composites of water-swellable and)
 II Nonwoven fabrics
 - (meltblown absorbent web and composites of water-swellable fiber and pulp)
- IT Superabsorbents
 - (meltblown absorbent web and composites of water-swellable fiber and pulp and)
- T Cellulose pulp
- (meltblown absorbent web and composites of water-swellable fibers and)
- IT Polyoxyalkylenes, uses
 - RL: POF (Polymer in formulation); USES (Uses)
- (precursor to water-soluble fiber for meltblown absorbents)
- IT Clothing
- (swimwear; meltblown absorbent web and composites for)
- II 77-92-9, Citric acid, uses 111-30-8, Glutaric dialdehyde 2224-15-9, Ethylene glycol diglycidyl ether 173717-69-6, Kymene 557LX RL: TEM (Technical or engineered material use); USES (Uses)
 - (crosslinker; meltblown absorbent web and composites of water-swellable fibers and)
- IT 212197-76-7, Ecomaty AX-10000
 - RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
- (meltblown absorbent web and composites of water-swellable)
- II 9002-98-6 9003-01-4, Polyacrylic acid 9003-05-8, Polyacrylamide
 9003-11-6, Ethyleneoxide-propylene oxide copolymer 9004-57-3, Ethyl
 cellulose 9004-59-5, Methylethyl cellulose 9004-64-2, Hydroxy propyl
 cellulose 9004-67-5, Methyl cellulose 25322-68-3, Polyethylene oxide
 - 25322-69-4, Polypropylene oxide 26336-38-9, Polyvinylamine RL: POF (Polymer in formulation); USES (Uses)
- (precursor to water-soluble fiber for meltblown absorbents) IT 303013-49-2, Favor SXM 880
 - RL: PEP (Physical, engineering or chemical process); POF (Polymer in formulation), PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
 - (superabsorbents; meltblown absorbent web and composites of water-swellable fiber and pulp and)

REFERENCE 10

- AN 139:118100 CA Full-text
- TI Superabsorbent enhancement to maintain high absorbent capacity under high loads following rigorous process conditions
- IN Lange, Nancy Birbiglia; Reeves, William Grover; Melius, Shannon Kathleen PA Kimberly-Clark Worldwide, Inc., USA; Kimberly-Clark Co.
- SO PCT Int. Appl., 54 pp.
- CODEN: PIXXD2
- DT Patent
- LA English
- IC ICM C08J003-12
 - ICS C08J003-24; A61L015-28; A61L015-00; C08C001-00; A61F013-15

CC 37-3 (Plastics Manufacture and Processing)

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FAN.	AN.CNT 3 PATENT NO.			KI	ND	DATE			Al	PPLI	CATI	ON N	ο.	DATE					
ΡI		2003	0577	64		_	2003 2003			WO 2002-US37655 20021121									
	WO	W:							AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	СН,	CN,	
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	ΝZ,	OM,	PH,	
			PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SI,	SK,	SL,	ΤJ,	TM,	TN,	TR,	TT,	
			TZ,	UA,	UG,	UΖ,	VC,	VN,	YU,	ZA,	ZM,	zw							
		RW:	GH,	GM,	ΚE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,	
			KG,	ΚZ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	
			FΙ,	FR,	GB,	GR,	ΙE,	ΙT,	LU,	MC,	NL,	PT,	SE,	SK,	TR,	BF,	ΒJ,	CF,	
							GN,												
		2002								U;	S 20	01-3	6755		2001	1221			
		6720																	
		2002												_	2002				
	EP	1465					2004								2002				
		R:													NL,		MC,	PT,	
															EE,				
					A					M.	X 20	04-P.	A529	4	2004	0602			
PRAI		US 2001-36755																	
	US	2000	156	20	0004	0.7													

- P
 - WO 2002-US37655 20021121
- AB An absorbent composite that can handle complex fluids and maintain high absorbent capacity under high loads even after the material has been subjected to rigorous processing conditions, includes an inhomogeneously crosslinked superabsorbent polymer having a highly crosslinked outer shell. The surface of the superabsorbent polymer includes a protective fibrous coating material, e.g., cellulose powder, wood pulp, etc., and an association agent, e.g., H2O, volatile organic solvent, aqueous solution of film-forming material, and/or adhesive. The fibers are attached to the outer shell and extend from the shell at a substantially perpendicular angle. For example, coating of Drytech 2035 particles in a fluidized bed with Excel 110 or Zeofree 5175A (granulated precipitated silica) in presence of H2O, enhanced the absorbency under load (AUL) over the uncoated absorbent before and after ball milling.
- ST superabsorbent particle coating cellulose fiber absorbency under load enhancement; polyacrylate superabsorbent particle coating silica absorbency under load enhancement; ball milling superabsorbent particle absorbency under load enhancement
- Perlite
 - RL: TEM (Technical or engineered material use); USES (Uses)
 - (Silkleer 25M, Ryolex 39; superabsorbent enhancement to maintain high absorbent capacity under high loads following rigorous process conditions)
- Cellulose pulp

(fibrous coatings on absorbent particles, Sulfatate HJ; superabsorbent enhancement to maintain high absorbent capacity under high loads following rigorous process conditions)

- Coating materials ΤТ
 - (fibrous; superabsorbent enhancement to maintain high absorbent capacity under high loads following rigorous process conditions)
- ΤТ Superabsorbents

(superabsorbent enhancement to maintain high absorbent capacity under high loads following rigorous process conditions)

- ΙT 7631-86-9, Silica, uses
 - RL: TEM (Technical or engineered material use); USES (Uses) (Zeofree 5175A, coatings on absorbent particles; superabsorbent

enhancement to maintain high absorbent capacity under high loads

following rigorous process conditions)

IT 7732-18-5, Water, uses

RL: TEM (Technical or engineered material use); USES (Uses) (distilled, association agent; superabsorbent enhancement to maintain high absorbent capacity under high loads following rigorous process conditions)

IT 9004-34-6D, Cellulose, derivs.

RL: TEM (Technical or engineered material use); USES (Uses) (fibers, coatings on absorbent particles; superabsorbent enhancement to maintain high absorbent capacity under high loads following rigorous process conditions)

T 9004-34-6, Excel 110, uses

RL: TEM (Technical or engineered material use); USES (Uses) (powdered, coating on absorbent particles; superabsorbent enhancement to maintain high absorbent capacity under high loads following rigorous process conditions)

IT 194739-20-3, Drytech 2035 303013-49-2, Favor SXM 880

RL: TEM (Technical or engineered material use); USES (Uses)

(superabsorbent enhancement to maintain high absorbent capacity under high loads following rigorous process conditions)

=> d history

(FILE 'HOME' ENTERED AT 13:25:53 ON 09 APR 2008) CHARGED TO COST=USPTO

FILE 'CAPLUS' ENTERED AT 13:26:12 ON 09 APR 2008 CHARGED TO COST=USPTO

E US20060189738/PN

L1 1 S E3

S 1314-13-2/REG#

FILE 'REGISTRY' ENTERED AT 13:28:56 ON 09 APR 2008 CHARGED TO COST-USPTO

L2 1 S 1314-13-2/RN

FILE 'CAPLUS' ENTERED AT 13:28:56 ON 09 APR 2008 CHARGED TO COST=USPTO

L3 97376 S L2

S 1344-28-1/REG#

FILE 'REGISTRY' ENTERED AT 13:29:28 ON 09 APR 2008 CHARGED TO COST=USPTO

1.4 1 S 1344-28-1/RN

FILE 'CAPLUS' ENTERED AT 13:29:28 ON 09 APR 2008 CHARGED TO COST=USPTO

L5 297471 S L4

L6 18381 S L3 AND L5

S 7631-86-9/REG#

FILE 'REGISTRY' ENTERED AT 13:30:15 ON 09 APR 2008 CHARGED TO COST=USPTO

L7 1 S 7631-86-9/RN

FILE 'CAPLUS' ENTERED AT 13:30:15 ON 09 APR 2008 CHARGED TO COST-USPTO L8 413483 S L7

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1.9
        18381 S L3 AND L5
L10
         16982 S L3 AND L8
               E RESIN+ALL/CT
               E RESINS+ALL/CT
               E (RESINS OR "RESIN" OR "RESINIFICATION" OR "RESINOLS" OR "GUM"
L11
       870491 S (RESINS OR "RESIN" OR "RESINIFICATION" OR "RESINOLS" OR "GUM"
               E HYDROGELS+ALL/CT
L12
         21359 S (HYDROGELS OR "GELS" (L) "HYDRO-" OR "ACRYLAMIDE-N, N'-METHYLE
               E ABSORBENTS+ALL/CT
               E ABSORBENTS+ALL/CT
         25826 S (ABSORBENTS OR "ABSORBENTS" OR "ABSORPTION AGENTS" OR "HYGROS
L13
L14
            42 S L9 AND ((L11 AND L13) OR L12)
L15
            50 S L10 AND ((L11 AND L13) OR L12)
            59 S L14 OR L15
L16
L17
            43 S L16 AND (PY<2004 OR AY<2004 OR PRY<2004)
L18
            59 FOCUS L16 1-
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CHARGED TO COST=USPTO
               E SANWET 3900/CN
               E SANWET
               E SANWET IM 3900/CN
L19
             3 S E111-E113
              E FAVOR SXM 880/CN
L20
             1 S E123
=> logoff hold
COST IN U.S. DOLLARS
                                               SINCE FILE
                                                             TOTAL.
                                                     ENTRY SESSION
FULL ESTIMATED COST
                                                     53.94
                                                             309.70
DISCOUNT AMOUNTS (FOR OUALIFYING ACCOUNTS)
                                              SINCE FILE
                                                               TOTAL
                                                    ENTRY
                                                            SESSION
                                                     -3.00
CA SUBSCRIBER PRICE
                                                               -26.20
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SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:58:27 ON 09 APR 2008